COLLEGE OF HEALTH SCIENCES

HANDBOOK FOR 2018

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Dean and Head of School of Health Sciences
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Dean and Head of School of Laboratory Medicine and Medical Sciences
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Dean and Head of School of Nursing and Public Health
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To be appointed

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Singh D MBChB (Medunsa), FCA(SA) Crit. Care (Anaesthetics)
Van Wyk, JM B Sc(Ed), Med. PhD (Ed) (Clinical & Professional Practice)
Vawda F MBChB (Natal), FC Rad Diag (SA) (Radiology)
Visser L MBChB (Pretoria), Mmed (Natal), FCS(SA)(Ophth) (Ophthalmology)

Senior Tutor

Ntando, EA MBChB (UNIKIN), MMED Paediatrics(UNIKIN), PGDip HIV/AIDS(UNIKIN) (Clinical & Professional Practice)
Honorary Appointments

Emeritus Professors

Bereczky ZB MBChB, MMED(Surg), MMED(Urol), FCUrol(SA) (Urology)
Bill PLA MBChB (Witwatersrand), MRCU(PK), FFRCP(London) FCP(SA) (Neurology)
Coovadia HM MBBS (Bombay) MSc(Birm), MD(Natal), DScHon, FCP(Paed)(SA) (Paediatrics & Child Health)
Loening WKE MBChB (UCT), FCP(Paed)(SA) (Paediatrics & Child Health)
Madiba TE MBChB MMED (Natal), LLM, PhD (UKZN), FCS(SA), FASCRS, PGDiplntL Ethics(UCT) (General Surgery)

Mitha AS MCRP (UK, London), MRCP (UK), MRCP (Ireland) FCP(SA), FRCP (London), FRCP (Ireland) (Cardiology)
Mkize DL MBChB (Natal), DCH(SA), MFGP(SA), DFMA(SA), MMED(Natal) (Psychiatry)
Moodley J MD (Natal), FCOG(SA), FRCP (Obstetrics & Gynaecology)
Peters AL MBChB (UCT), MMED (Natal), FCS(Ortho)SA (Ophthalmology)
Wessels WH MBChB (Pretoria), DPM (Witwatersrand), DM (UOVS) (Psychiatry)

Honorary Professors

Adhikari M MBChB (Cape Town) MD(Natal) FCP(Paed)(SA) (Paediatrics & Child Health)
Green-Thompson RW MBChB (Natal), DipCOG(SA), FCOG(SA), FRCP (Obstetrics & Gynaecology)
Jordaan JP MBChB MMed(Stell) FFRT(SA) (Radiotherapy & Oncology)
Rasool MN BSc (UDW), MBChB (Natal), FCS(Orth)(SA) PhD (Orthopaedic Surgery)

Honorary Associate Professors

Biccard B MBChB(UCT), DA(SA), FCA(SA) (Anaesthetics)
Burns JK MBChB (UCT), MSc (Edinburgh), FC Psych(SA), PhD (UKZN) (Psychiatry)
Lasich AJ MBChB, DPM (Witwatersrand), FFPsych(SA) (Psychiatry)
Omar MAK MBChB, MD (Natal), FCP (SA), MRCU (UK), FRCP (London) (General Medicine, Endocrinology)
Ranjith N MBChB (Natal), BSc, MD (UKZN), FEFC (Cardiology)
Rodseth RN MBChB (Pret); DCH (SA); DA (SA); FCA (SA); MMED Anaesthesics (UKZN); Cert Crit Care (SA); MSc HRM (McMaster); PhD Anaesthesia (UKZN) (Anaesthetics)

Wong B. (AB& MD) Professor of Medicine Emeritus, Oregon Health University, Portland, OR, USA

Honorary Senior Lecturers

Arnold JP MBChB, (Natal) Hdip (SA), FCS Orth (SA) (Orthopaedic Surgery)
Chivers D MBChB FC Ortho(SA),MMed(UCT) (Orthopaedic Surgery)
Coetzee FJ MBChB(Pret), M Med (Orth) (Pret) (Orthopaedic Surgery)
Farina Z MBChB (UCT), DA(SA), FCA(SA) (Anaesthetics)
Gangat AE MBChB(Ireland, Royal College of Surgeons), LM, LRCP, LCRS(Ireland) DPM(Dublin), MMED Psych (Natal) (Psychiatry)

Eriksson L MBChB (Pretoria), FCPsych(SA) (Psychiatry)
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Marais LC MBChB (UOFS), FCS(Ortho) (SA), MMED(Ortho) (UP), CIME (Orthopaedic Surgery)
Naidoo A MBChB (MEDUNSA), FC(Orth) SA (Orthopaedic Surgery)
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Rocher A MBChB (Stellenbosch HDip (SA) FCS Orth (SA) (Orthopaedic Surgery)

Honorary & Part-Time Lecturers

Aboo O MBChB (Natal), FCP(SA) (Gastroenterology)
Adeniyi AB FCP(SA) Cert Neph (Nephrology)
Akerman SM MBChB FCP(SA) Cert Endocrine (Endocrinology)
Alexander GR MBChB (Natal), FCSCardio(SA) (Cardiothoracic Surgery)
Allopi K MBChB (Natal, DA(SA), FCA(SA) (Anaesthetics)
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Alphonsus CS MBChB (Unitra), DA(SA), FCA(SA) (Anaesthetics)
Alsharef MM MBchB, MRCS Eng, MRCS Ed, FC Urol (SA), MMED Uro Natal (SA), Libyan Board of Urology (Urology)*

Amod A MBchB (Natal), FCP(SA) (Endocrinology)

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Harichandparsad R MBChB (UKZN), FC (Neurosurg) (SA), MMED (UKZN) (Neurosurgery)
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Harris SJ MBChB (UCT), DCH(SA), FCP(Paed)(SA) (Paediatrics & Child Health)
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Hoosen K MBChB (Natal), FCDerm(SA), MMedSc(UKZN) (Dermatology)
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Kapongo N  BSc (Kinshasa), MD (Kinshasa), Dip in Paeds (Kinshasa), Cert in Research (Ivory Coast), FCP (Paeds)(SA), (Paediatrics & Child Health)

Kasongo K  MBChB (DRC) (Obstetrics & Gynaecology)

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Nadar S MBChB (Natal), FCP (SA) (Cardiology)
Naidoo A MBChB (Natal), DOH (Witswatersrant), FCP(SA) (General Medicine)
Naidoo AK MBChB (Natal), FC Neuro(SA) (Neurology)
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<td>MBChB, FCEM (SA), DOH, Btech BA(B) <strong>(Emergency Medicine)</strong></td>
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<td>MBChB (Cape Town), FCP (SA), Cert in Nephrology <strong>(Nephrology)</strong></td>
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<td>Ngcobo NP</td>
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Rorke N DA(SA), FCA(SA) (Anaesthetics)
Royston D MBCh (WITS), (Neurosurgery)

Sacoor MF MBChB (Natal), FCDerm (SA) (Dermatology)
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Zibi NN  MBChB (UKZN), FCP (SA) (Nephrology)
Zielecki WB  MD (Poland), Mmed (Natal) (Otorhinolaryngology)
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Dean and Head of School
Professor M.E.S. Soliman

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Kruger HG  Bsc (PU), BSc (Hons), HDE (PU), MSc (PU), PhD (PU) (Pharmaceutical Sciences)

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Naidoo P BPharm, MMedSc (UDW), PhD (UKZN) (Pharmaceutical Sciences)
Naidoo R BSportScSc (UDW), BSportsSc Hons (Biokinetics) (UDW), M SportSc, (UKZN), PhD (UKZN) (Biokinetics, Exercise and Leisure)
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Oosthuizen F BPharm, MSc, PhD (PU for CHE) (Pharmaceutical Sciences)
Owira PMO BSc (Nairobi), BSc (Med Hons) (UCT), MSc (Medicine) (UCT), PhD (UKZN) (Pharmaceutical Sciences)

Pahl, JAH BSc (Log) (UCT), MA (Stellenbosch), DipEd (Natal) (Speech-Language Therapy)
Pharaoh HG BSc (Physio) (UWC), MSc (Physio) (UWC), PhD (UWC) (Physiotherapy)

Lecturers
Bagwandin V BComm Pathology, MComm Pathology (UKZN) (Audiology)
Bangalee V BPharm (UDW), PGDip (Bus Man), MPharm (UKZN) (Pharmaceutical Sciences)
Chemane J BSc (Phy) (UDW), MHandRehab (UKZN), OMT (SASP) (Physiotherapy)
Davison J BPhysio (UKZN), BSc Hons (Exercise Science) (UKZN), MSc (Exercise and Leisure Sciences)
Dlamini K PSportSc (UKZN), BSc Hons (Exercise Science) (UKZN), MSc (Exercise and Leisure Sciences)
Ebrahim Khan N BOptom (UKZN), MOptom (UKZN) (Optometry)
Fewster D BOT (UDW), MPhil in Group Therapy (UKZN) (Occupational Therapy)
Flack PS BA Speech and Hearing Therapy (Witwatersrand), MA (Stellenbosch); DEd (UKZN) (Speech-Language Therapy)
Gcabsashe NM BOptom (UKZN), MOptom (Optometry)
Gurayah T BOT, MOT (UDW) (Occupational Therapy)
Harries CS BSc (Pharm) (Natal), MMedSci(Pharm) (UDW), MEd(UKZN) (Pharmaceutical Sciences)
John DC BSc (Physio) (UDW), MComm Path (UP) (Speech-Language Therapy)
Karrim S BComm, MComm (UKZN) (Speech-Language Therapy)
Khan NB BSpeech and Hearing Therapy (UDW), MPublic Health (Audiology)
Khumalo KK B SportSc, BAHons (Recreation) (UDW), MA SportSc (UKZN) (Biokinetics, Exercise and Leisure Science)
Koch H BOT (Pret), MDevStudies (UKZN) (Occupational Therapy)
Lawler S BSc (Physio) (UDW) MPhysio (UKZN) (Physiotherapy)
Lingah T BOT (UDW), MBA (Wales) (Occupational Therapy)
Makhoba MG BSc Audiology (UCT), MComm Pathology (UKZN) (Audiology)
Mashige KP BSc (Witwatersrand), BOptom (UDW), CAS (NECO), MOptom (UKZN), PhD (UKZN) (Optometry)
Mathibe LJ BPharm (UNIN), MClinPharm (Natal), RTMin (TEE College), MEBHC (Oxon) (Pharmaceutical Sciences)
Moodley I BDnTh (UDW), MSc (Dent) (Dentistry)
Moodley L B Speech & Hearing Therapy (UDW), BAHons (Unisa), MCommPath (Pretoria) PhD (Pretoria) (Speech-Language Therapy)
Moodley R BDnTh (UDW), MSc (Dent) (Dentistry)
Mpanza DM BOT (UKZN), MOT (UKZN) (Occupational Therapy)
Munsamy AJ BOptom (UDW), CAS (NECO), MOptom (UKZN) (Optometry)
Muslim TA BDnTh (UDW), PGDLaw (UKZN), PGDGE (UKZN), MSc Dent (UWC), MPharm (Qual) DUT, PhD (UKZN) (Dentistry)
Naidoo D BOT (UKZN), MOT (UKZN) (Occupational Therapy)
Naidoo U BCommPathology, MCommPath (UKZN) (Speech-Language Therapy)
Naiier V BSc (India), DHSM (Natal) (Dentistry)
Nirghin U BOptom (UDW), Oc.DiaCert.(UKZ-), MOptom (UKZN) (Optometry)
Ojewole EB BPharm (OAU Ile), MSc (Strathclyde) PhD (UKZN) (Pharmaceutical Sciences)
Staff of the College of Health Sciences

Paken J BComm Pathology (UDW), MComm Pathology (UKZN) (Audiology)
Panday S BSpeech and Hearing Therapy (UDW), MCommunication Pathology (UKZN) (Audiology)
Perumal VA BSc (UDW), BSc(Hons) (UKZN), BPharm (UKZN), MMedSci (UKZN) (Pharmaceutical Sciences)
Phehlukwayo SM DipOT, BOccTher (Hons) (Medunsa). LLM (Public Health) (UKZN) (Occupational Therapy)
Rampersad N BOptom, MEd (UKZN) (Optometry)
Reddy M BDMThHons (UDW), (Medunsa), MSc (UWC) (Dentistry)
Rencken, G BOccc Ther (UP), MOT (UFS) (Occupational Therapy)
Sookan T BSportSc, BSportSc Hons (Biokinetics), M SportSc, (UKZN), PhD SportSC, (UKZN) (Biokinetics, Exercise and Leisure Sciences)

Van Staden DB BOptom (UDW), MPA(DFS), PhD (DIT) (Optometry)
Xulu-Kasaba, ZNQ BOptom, MBA (Regent Business School) (Optometry)
Zimu P BSportSc (UKZN), BSportSc Hons (Recreation) (UKZN), M SportSc, (UKZN), (Biokinetics, Exercise and Leisure Sciences)

Research Lecturers
Skelton, AA BA, MA Chemistry Cardiff University, PhD Computational Chemistry University of Warwick (Pharmaceutical Sciences)
Hornarpavar B BA, MA, PhD Physical Chemistry (Computational) Moalem University (Pharmaceutical Sciences)

Developmental Lecturers
Blose Z BComm Pathology, MComm Pathology (UKZN) (Audiology)
Pefile N BSc (UWC); PGD (Public Health) (Wits); MScMedSc (Rehabilitation) (Stellenbosch) (Physiotherapy)
Peter VZ BA Speech and Hearing Therapy (Wittwatersrand), MComm Pathology (UKZN) Audiology
Rhini MM BSportSc, BSportSc Hons (Recreation), M SportSc, (UKZN), (Biokinetics, Exercise and Leisure Sciences)
Tlaila TB BPharm (UL), MPharm (UKZN) (Pharmaceutical Sciences)

Senior Tutors
Christopher C B.OT (UDW), P.Dip. in HIV/AIDS Clinical Management (UKZN), M Phil Group Therapy (UKZN) (Occupational Therapy)
Doyle P BA(Hons) (UDW) (Biokinetics, Exercise and Leisure Science)
Rathiram V BCommunication Pathology (UDW) (Speech-Language Therapy)
Van Bever Donker R BSoc (Physio) (UWC), OMT (SASP) (Physiotherapy)

School of Laboratory Medicine and Medical Sciences
Dean and Head of School
Professor M V Mabandla
BSc Medicine (Honours), PhD (UCT)

Emeritus Professors
Sturm AW MD, PhD (University of Amsterdam) (Medical Microbiology and Infection Prevention & Control)
Makgoba MW MBChB (Natal), DPhil (Oxon), FRCP (London), FRSS.Af; MASS.Af, AMP (INSEAD), OMS (Virology)

Senior Professors
Satyapal KS LRCP, LRCS, LM (Ireland), MD (General Surgery) (UND), FICA (USA), FRCP (Ireland) LLM (Medical Law) (UKZN), Fellow of UKZN (Anatomy)

Professors
Chuturgoon AA BSoc (Hons), MSc (Natal), PhD (UKZN) (Chemical Pathology & Medical Biochemistry)
Naicker T BSc (UDW), Tch RMS (UK), MMedSci, PhD (Natal), FRMS (UK) (Optics and Imaging)
Ndung'u T BVM (Nairobi), PhD (Harvard) (Hasso Plattner/HPP) (Virology)

Research Professor
De Oliveira T BSc (Hons) (Natal), MMedSci, PhD (UKZN) (Genomics Centre)
Associate Professors
Channa ML BSc (Hons) (UDW), HED (Unisa), MSc, PhD, MDD (UDW) (Physiology)
Mackraj J BSc (Hons), MSc, PhD (UDW) (Physiology)
Milisana KP MBChB, MMed (Natal), PhD (UKZN) (Medical Microbiology)
Pillay M BSc, BMedSci (Hons) (UDW), MMedSci, PhD (Natal) (Medical Microbiology)
Ramdal PK MBChB, MMed, Adv DipAdEd (Natal), FFPath (SA) (Anatomical Pathology)

Senior Lecturers
Gordon ML BSc (Hons), MMedSci, PhD (Virology)
Mann JK BSc (Hons), MMedSci, PhD (UKZN) (HPP/Virology)
Nadar A BSc (UDW), HED (Unisa), MSc, PhD (UDW) (Physiology)
Naicker VL MBChB, MMed, DHSM (Natal), FFPath (SA) (Haematology)
Nkambule BB BSc Medical Biosciences (UWC), BSc Medical Sciences (Hons) (Stell), MMedSci cum laude (Stell), PhD (Stell) (Haematological Pathology)

Lecturers
Bhola P MBChB (Natal), FCPH (Micro) (SA) (Medical Microbiology)
Dlamini N MBChB (Natal), FCPH (Micro) (SA) DipHIVMan (SA) (Medical Microbiology)
De Gama BZ BMedSci (Hons), MMedSci, PhD(UKZN) (Anatomy)
Famoroti TO MBBS (Nigeria), Post graduate Diploma in HIV Management (SA), PGDip Tropical Medicine and hygiene, Masters in Public health (SA) (Virology)
Gounden V MBChB (Natal), FCPH (Chem) (SA), MMed (Wits) (Chemical Pathology & Medical Biochemistry)
Govender K MBChB (Natal), Diploma in HIV Management (CMSA) FCPH (Viro) (SA) (Virology)
Haffeejee S MBChB (Natal), FCPH (Micro) (SA) DCH (SA) (Medical Microbiology)
Kathi A BMedSci (Hons) (UKZN), PhD (UKZN) (Physiology)
Khosa MT MBChB (Natal), Dip (HIV Management) (CMSA), MSc (STI & HIV) (UCL) and (LSHTM) (Virology)
Lazarus L BMedSci (Hons), MMedSci (UDW), PG Dip in Higher Education (UKZN) (Anatomy)
Lutchminarain K MBChB(Witwatersrand), FCPH(Micro)(SA) (Medical Microbiology)
Madlala P BSc (Hons) (Natal), MSc PhD (UKZN) (HPP/Virology)
Mahabeer P MBChB (Natal), FCPH (Micro) (SA) (Medical Microbiology)
Mahabeer Y MBChB (Natal), FCPH (Micro) (SA) MMed (med Micro) (UKZN) (Medical Microbiology)
Mahomed S MBChB (Natal), FCPHM (SA) (Public Health), MMed (PHM) (Natal), DipHIVMan (SA) (Public Health and Infection Prevention & Control)
Mbowoza HP NDip (Biotechnology), BTech (Biotechnology) (Natal Tech), MMedSci (Physiology) (Natal), PhD (NWU) (Biochemistry)
Mkhwanazi N BSc (Hons), MMedSci (UKZN) (HPP/Virology)
Molathregi RP BSc (Hons) (Rhodes University), MMedSci (UKZN) (Microbiology)
Moody P MBChB, FFPH (Haem), Dip Health Care Management (SA) (Haematology)
Moody P MBChB (Natal), FCPH (Viro) (SA) (Virology)
Mpfana T BMedSci (Hons) (UKZN), PhD (UKZN), (Anatomy)
Msomi NB MBChB (Natal), Diploma in HIV Management (CMSA), FCPH (Viro) (SA) (Virology)
Myburg RB BSc (Hons), MMedSci (Natal), Phd (UKZN) (Chemical Pathology & Medical Biochemistry)
Naidoo Prebashni MBChB (Natal), FCPH (Chem) (SA) (Chemical Pathology & Medical Biochemistry)
Naidoo Prisha MBChB (Natal), FCPH (Chem) (SA) (Chemical Pathology & Medical Biochemistry)
Naidu ECS MBChB (Natal), MMedSci (UDW) (Anatomy)
Ndlizi Z BSc (Hons), MMedSci (UKZN) (Anatomy/Physiology)
Ndlovu B BMedSci (Hons), MMedSci (UKZN), PhD (UKZN) (HPP/Virology)
Ngubane P BSc (Unizul), BMedSci (Hons) (UKZN), MMedSci (UKZN), PhD (UKZN) (Physiology)
Niehaus AJ MBChB (UOFS), FCPH Micro (SA), MMed (Med Micro) (UKZN) (Medical Microbiology)
Parboosingh R MBChB (Natal), FCPH (Viro) (SA), MMed (UKZN), MSc (Columbia) (Virology)
Pillay P BMedSci (Hons), MMedSci, Phd (UKZN) (Anatomy)
Ramamuth P MBChB (Natal), FCPH (Micro) (SA) (Medical Microbiology)
Ramsamy Y MBChB (Medunsa), FCPH(Micro)(SA), MMed(Microbiology)(Natal), (Medical Microbiology)
Ramsay Y MBCB (Medunsa), FCPH (Micro) (SA), MMed (Micro) (Natal) (Medical Microbiology)
Ramsuran V, BSc (Hons), MSc (UKZN), PhD (UKZN) (Genetics)
Rennie CO BMSci (Hons), MMedSci, PhD (UKZN) (Anatomy)
Rapiti N MBChB, FCPath (SA) (Haematology)
Qulu L BMSci (Hons) (UKZN), PhD (UKZN) (Physiology)
Samuel, EY MBChB (Natal), Dip (OBST) (SA), FCPath (Micro) (SA) (Medical Microbiology)
Samuel R MBChB (Natal), Diploma in HIV Management (CMA), FCPath (Viro) (SA) (Virology)
Sirkar R MBChB (Natal), FCPath (SA) (Chemical Pathology & Medical Biochemistry)
Sojane K BSc (Hons), MSc (Wits) (HPP/Virology)
Sookan L MBChB (Witwatersrand), FCPath (Micro) (SA) MMed (Med Micro) (UKZN) (Medical Microbiology)
Swe Swe-Han K MBBS (Mynamar), FC Path Micro (SA), MMed (Medunsa), DTMH(Witwatersrand), PDIC(Stellenbosch), PhD (UKZN) (Medical Microbiology)
Van der Walt M MBChB (Stellenbosch), MMed (Stellenbosch) Anatomical Pathology (Anatomical Pathology)
Zulu SG BSc (Hons), MMedSci (UKZN) (Medical Microbiology)

Honorary Appointments

Professors
Addo M MD PhD (Frederick Wilhelms University) (HPP/Virology)
Altfeld M Dr Med (Cologne), MD (Cologne) (HPP/Virology)
Goulder P JR BA (Oxon), BChir MB (Cambridge), FRCPCH MA DPhil (Oxon) (HPP/Virology)
Grosset JHE MD (Paris) (Biomedical Research Unit)
McLean M BSc (Hons) (Natal), MSc (Natal), PhD (Natal) (Physiology)
Moodley P MBChB (Natal), MMed, PhD (Natal) (Medical Microbiology & Infection Prevention & Control)

Associate Professors
Coovadia YM MBChB (UCT), FCPath (Micro) (SA) (Medical Microbiology)
Futre EM BA (Hons), STD (Stellenbosch), BSc (Med) (Hons), MSc (Med) (UCT), PhD (Pretoria) (Physiology)
Kharsany AB M MMedSc, PhD (Natal) (Medical Microbiology)

Senior Lecturers
Archary D BMSci (Hons) (Natal), MMedSci (Natal), PhD (Natal) (Medical Microbiology)
Higgins-Opitz SB BSc (Hons) (UCT), MSc (Natal), PhD (Natal) (Physiology)
Kasprowicz V MBiochem (Oxford), PhD (Oxford) (HPP/Immunology)
Kong V MBChB (Otago), MSc (Edin), PhD (UKZN) (Anatomy)
Liebenberg C BSc (Hons) (UCT), MSc (UCT), PhD (UCT) (Medical Microbiology)
Montague C BSc (Hons) (York), PhD (Cambridge), MBA (Stell) (Medical Biochemistry)
Naranbhai V MBChB (UKZN), BMSci (Hons) (UKZN), PhD (UKZN) (Virology)
Ndlovu Z BSc (NMMU), MSc (John Hopkins), PhD (John Hopkins) (HPP/Virology)

Lecturers
Bux S BSc (UDW), MMedSci (Natal), PhD (UKZN) (Physiology)
Joubert BC BSc, BMSci (Hons) (Natal), MMedSci, PhD (UKZN) (Med Micro & Infection Prevention & Control)
Kwitshana Z NDip, Sp Dip MTech (MUT), NHD (Natal Tech), MSc (Med Micro) (Natal), PhD (UKZN) (Immunology)
Mngadi K MBChB (Natal), MPhil (UCT), DipHIV (SA) (Virology)
Ngcapu S BSc. (Microbiology) (University of Zululand); BSc. (Hons) (Microbiology) (University of Zululand); MMedSci (Virology) (UKZN), PhD (UKZN) (Medical Microbiology)
Singh Y MBChB (UKZN), FCPath (Anat), MMed (Anatomical Pathology) (UKZN) (Anatomical Pathology)
Sivro A  B.Sc. Honours, Microbiology, (University of Manitoba), PhD (Medical Microbiology) (University of Manitoba) (Medical Microbiology)

Vaubell JI  MBChB (UKZN), FCPATH (Anat), MMed (Anatomical Pathology) (UKZN) (Anatomical Pathology)

Research Fellows
Cliff G  BSc (Hons) (Natal), MSc (UCT) (Biomedical Research Unit)
Wintner SP  BSc (Munich), BSc (Hons) (Natal), MSc (Natal) (Biomedical Research Unit)

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School of Nursing and Public Health

Dean and Head of School
Professor J M Tsoka-Gwegweni (Acting)

BSc Hons(Reading, UK), BA Hons (UNISA), MSc (Natal), MPH (UWC), PhD (UKZN)

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Emeritus Professors
Gathiram P  BSc (UDW), BSc Hon (UDW), MSc (UDW), PhD (Natal) (Family Medicine)
Schebusch L  Hons (Unisa), PhD (Natal) (Nursing)

Professors
Brysiewicz P  BA (Nursing Admin&Nursing educ.), B Social Science (Nursing), MCur; PhD (Nursing)
Chimbari MJ  (BSc – Biological Sciences; Diploma – Research Methodology; PhD – Snail Ecology) (Nursing)
Mars M  MBChB (UCT), MD (Natal) (Telehealth)
Tanser FC, PhD (UKZN), MSc Epidemiology (Imperial College, London), MSc Geography (Rhodes University), BSc Hons (Rhodes University). Honorary Professor, University College London (Public Health Medicine)

Associate Professors
Chima SC  MD, LL.M (Medical Law) (Northumbria) (Bi & Research Ethics and Medical Law)
Gomo E, MSc. (Applied Immunology), PhD University of Copenhagen (Traditional Medicine)
Mchunu GG  RN, RNE, RNA, OHNP, MCur (Natal) PhD (UKZN) (Nursing)
Naidoo M  MBChB, MFamMed (Natal), FCFP (SA), MSc SportsMed (Pretoria) Dip HIV Management (SA) Dip PEC (SA); PhD (UKZN) (Family Medicine)
Mtshali NG  Dip N &M, Dip OT; BCurHons (Unisa); MCur-Nursing Education (UND); PhD (UKZN) (Nursing)
Naidoo NR  MBChB (Natal), DOH (UCT), MPH (OccHealth), PhD (Michigan) (Occupational & Environmental Health)
Naidoo SS  MBChB (Natal), MFamMed (Natal), FCFP (SA) PhD (UKZN) (Family Medicine)
Pillay AL  BAHons, MA (UDW), MSc (Harvard), PhD (Natal) (Behavioural Medicine)
Pillay BJ  BAHons, MA (UDW), PhD, DHSM (Natal), ClinPsych(UK), ClinSci (UK), LLM (Medical Law)(UKZN) (Behavioural Medicine)
Ross AJ  MBChB (UCT), PGDip (Paediatrics), (SA College of Medicine) MFamMed (MEDUNSA) PhD (UKZN)(Family Medicine)
Sartorius BKD, PhD (Wits), EPIET fellow (Sweden), MSc (Wits), BSc Hons (Wits), BSc (Wits) (Public Health Medicine)
Taylor M  BScPharm (Rhodes), MMedSci (UDW), PhD (UKZN) (Public Health Medicine)
Tsoka-Gwegweni JM, BSc (Hons) (Biological Science) (Reading, UK), BAHons (Psychology) (UNISA), MSc (Medical Parasitology) (Natal), MPH (UWC), PhD (UKZN) (Public Health Medicine)

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Senior Lecturers
Dloungwe TP  BSc (Physio) (WITS), MPH (UKZN), PhD (UKZN) (Public Health Medicine)
Gaede BM  MB BCH (WITS), MMED (Family Medicine) (MEDUNSA) PhD (Pret) (Family Medicine)
Ginindza TG, MSc Epidemiology, Dip. Epidemiology (LSHTM, London), MPH (The University of Melbourne), Com.Med (Nairobi, Kenya), PhD (UKZN) (Public Health Medicine)
Hlongwana KW BA(Hons) (UDW), MA (UKZN), MPH (UWC), PhD (UKZN) (*Public Health Medicine*)
Horwood CM MBBS, MRCGP, MPH, PhD (UKZN) (*Rural Health*)
Knight S BSc, MBChB, DTM&H (Witwatersrand), DPHC(Ed), MFGP (SA), FFCH (SA) (*Public Health Medicine*)
Mashamba-Thompson TP FdSc Health Sciences (Surrey, UK), BSc (Hons) Applied Biomedical (Surrey, UK), PG Dip Biomedical Science (Greenwich, UK), MMEDSc (UKZN), PhD (UKZN). (*Public Health Medicine*)
Mhlongo EM Dip General Nursing (King Edward VIII Hospital), Dip Midwifery (King Edward VIII Hospital), B Cur (EetA) (UNIZUL), Masters in Community Health (UNISA), PhD (WITS) (*Nursing*)
Naidoo S MBChB (Natal), MMED (UKZN), FCPHM (SA), DOH (UCT), DHSM (Natal) PhD (Utrecht) (*Public Health Medicine*)
Sibanda W BSc (Life sciences) (Wits), BSc Med Hons (Pharmacology) (Wits), PhD (Information Technology) (North West University) (*Public Health Medicine*)
Tomita MA PhD Minnesota Univ (*Rural Health*)
Vandumael AM BA, MA, PhD Wits Univ (*Public Health Medicine*)

Lecturers
Bagwandeene CI MBChB (Medunsa), DHS (Natal), DipHIV Management (SA), FCPHM (SA) (*Public Health Medicine*)
Baloyi OB BA (Nursing) (Wits), MSc (Nursing) (Wits), PHD (UKZN) (*Nursing*)
Diamini SB Diploma Biomedical Technology, (MUT) MA (UKZN) (*Public Health*)
Diatu N MA (Public Health) (WSU), Advance Diploma Management Leadership (University of Fort Hare) (*Nursing*)
Emmanally W B CURR (Unisa), MA (Nursing critical care) (UKZN) (*Nursing*)
Engelbrecht C RN, RM, RAPN, RCHN B.Cur, M.Cur (UJ) (*Nursing*)
Enslin-Zank A BA(Hons) (UDW), MA (Natal) (*Behavioursal Medicine*)
Geils CE BA(Hons) (Natal), MA(Clinical Psychology)(Rhodes) (*Behavioursal Medicine*)
Glajchen S, BSc (Occ Ther(Witwatersrand), Advanced Dip AD Ed (Natal), MPH(Hebrew University) (*Public Health Medicine*)
Gumedze E Z RNE, RNA, RCHN, RM, RN. BCur (UniZulu), Masters Health Systems Management. (UNIZUL) (*Nursing*)
Jafta N BMEdScHons (Natal), MMEDSc (UKZN) (*Occupational and Environmental Health*)
Johnston ER BA(Hons) (Speech &Hearing Therapy) (Witwatersrand), MA (RAU) (*Behavioural Medicine*)
Mahomed O, MBCHB (Natal), MBA, FCPHM (SA), MMED (PHM)-UKZN (*Public Health Medicine*)
Khuzwayo NF BSHP (WSU), PGDipHP (WSU), MA (Psychology), PhD (UKZN) (*Rural Health*)
Mankayi AA BAHons (Vista), MA (Clinical Psychology) (Rhodes) (*Behavioural Medicine*)
Mbeje P Dip General, Midwifery, Community and Psychiatric Nursing Science (Edendale Nursing College), BA Cur Hons (UNISA), Masters in Health Sciences (UKZN) (*Nursing*)
Mhlabu TY MBChB, FCPHM (SA), (*Public Health Medicine*)
Mooi NM BA Cur (Nursing Education and Nursing Administration) (UNISA), MCur Nursing (Medical-Surgical) (UFH) (*Nursing*)
Naidoo S MBChB (Natal), MMED (UKZN), FCPHM (SA), DOH (UCT), DHSM (Natal) PhD (Utrecht) (*Occupational & Environmental Health*)
Naidoo K MBChB (Natal), Dip.Anaes. (SA), Dip.Obs. (SA), MFamMed (Natal), MCFP (SA); (*Family Medicine*)
Naidoo K MBChB (Natal); MMED-FamMed (Natal); LLM-Medical Law (UKZN); FCPF (SA); PhD-Medicine (UKZN)
Naidoo JR BNurs (Natal), MNurs (UKZN), RN, RM, RNE, CHN, RPN (Nursing), PhD (UKZN) (*Nursing*)
Naidu T BA(Hons), MA (UDW), PGDip (HRM), PGDip (Narrative Research), PhD (Psychology) (UKZN) (*Behavioural Medicine*)
Nkabinde TC MBChB (UKZN), FCPF (SA) MFamMed (UKZN) (*Family Medicine*)
Nkabinde NG MBChB (UKZN), FCPF (SA) MFamMed (UKZN) (*Family Medicine*)
Nkwayana MN BScHons, MSc (Natal) (*Public Health Medicine*)
Noor Mahomed SB BA(Hons), MA (UDW), PhD (UKZN) (*Behavioural Medicine*)
Phaswana S MBChB (UCT), MMED (UKZN), FCPHM (SA) - Occ Med (*Occupational & Environmental Health*)
Rangiah S BSc., BMedSc, MMEDSc. (Anatomy), MBCHB, MFamMed (UKZN) (*Family Medicine*)
Siyothula ETB BA(Hons), MA (Zululand) (*Behavioural Medicine*)
Smith A A H Adv Dip (Nursing Education), BAHons-Nursing management (UKZN), MN- Mental Health (UKZN) (Nursing)

Swain KD BCom (UND), NDP Psych (UKZN), BSocSci Hons (UKZN), MSocSci (Clin Psych)(UKZN) (Behavioural Medicine)

Tlou B BSc in Mathematical Statistics and Computer science (UFH), Honours in Applied Statistics (UFH), Master of Science in Biostatistics and Epidemiology (UFH), (Public Health Medicine)

Vawda NB, BAHons, MA (UDW), PhD (UKZN) (Behavioural Medicine)

Voce AS BSc (Occ Ther) (Witwatersrand), Advanced University Dip (Natal), Master (Comm Health) (Liverpool), PhD (UKZN) (Public Health Medicine)

Wentzel D MPH (UKZN), BNAP, RN, RM, CHN, RNE, Intensive Nursing Care Diploma (Nursing)

Yashik Singh, BSc - (Natal), BSc NDP (UKZN), BSc Hons - Computer Science (UKZN), MMEdSc – Medical Informatics (UKZN), PhD - Medical Informatics (UKZN) (Telehealth)

Medical Officer (Developmental)

Chonco NF MBChB (UCT) (Family Medicine)

Fractional Appointments

Scott RE BSChons (Biological Sciences) (Plymouth Polytechnic), PhD (Biochemistry)(Calgary), Postdoc: Clinical Chemistry (Mayo Medical School, Minnesota) (Telehealth)

Govender D, MBChB, MMED (UKZN),

Honorary Appointments

Honorary Professors

Abdool-Karim Q BSc (UDW), HEDDip (Unisa), Diploma Pub Service Man (Pretoria), PhD (Natal) (Public Health Medicine)

Abdool-Karim SS MBChB (Natal), FFCH (SA), MMED (Natal), MS-Epidemiology (Columbia), PhD (Natal) (Public Health Medicine)

Archibong U BSc, PhD (Hull) (Nursing)

Bachmann OM,

Batterman S PhD (Massachusetts Institute of Technology) (Occupational & Environmental Health)

Barregard L Medicine (Lund), PhD Occupational Medicine (Goteborg) (Occupational and Environmental Health)

Chambers M PhD (Ulster), RGN, RMN, RNT (Nursing)

Kliweer WL BA (Vanguard University, US), MS (Portland State University, US), PhD (University of California, US) (Behavioural Medicine)

Robins T MD (Tufts University, Boston), MPH (University of Michigan) (Occupational & Environmental Health)

Thompson, ML BSc Hons in Math Stat and Economics (UKZN), PhD Math Stats (Georg-August Universitat) (Occupational and Environmental Health)

Toren K PhD Medicine (Gothenburg), PhD (Occupational Medicine) (Gothenburg) (Occupational and Environmental Health)

Wood FB BAHons (Wake Forest), MDiv (SouthEastern Baptist Theological Seminary), MA (Wake Forest), PhD (Duke) (Occupational and Environmental Health)

Honorary Associate Professors

Bhana A,

Bhengu BR RNE; RNA; RICN; RCHN; RM; RN; BCurHons (Unisa); MCur (RAU), PhD (Natal) (Nursing)

Cassimjee M H BMedSchons (UDW), MPraxMed, DHSM (Natal), LLMRCP, LLMRCS (Ire), FCGP (SA) (Family Medicine)

Moodley I BScPharm (UDW), PhD (London) (Public Health Medicine)
Naidoo SS MBChB (Natal), MFamMed (Natal), FCFP (SA) PhD (UKZN) *(Family Medicine)*

Honorary Senior Lecturers
Fröhlich JA, DCur, BCur (RAU) *(Nursing)*
Govender RD, BA (UDW), BA (Natal), MA (Natal), PhD (UKZN) *(Nursing)*
Kerr J, PhD (UKZN), MCUR (Stellenbosch), RN, RM, RNA, RNE, CHN, OHN, *(Nursing)*
Leask K BSc (UKZN) BSc Hons Statistics (UKZN) PhD Statistics (UKZN) *(Public Health Medicine)*

Honorary Lecturers
Aung M MBBS (Yangon), Dip HIV (UKZN), DO (SA), MMed Fam Med(UKZN)
Baxter C MSC (Natal), PhD (UKZN) *(Public Health Medicine)*
Govind U MBChB (Natal), MGP MPraxMed (Natal), DOH DTM&H DHSM *(Family Medicine)*
Grobler AC MSc (University of the Orange Free State), MS (Columbia University), PhD (UKZN) *(Public Health Medicine)*
Kramers-Olen A BSc, BA Hons., M (Soc. Sci.) (Natal) *(Behavioural Medicine)*
Lalaw AM MBBS (Nsukka), MPH- UKZN, MFamMed (Medunisa), DHSM, Natal, Dip HIV UKZN
Lopez G, MBBS (Havana), MFamMedn(Cub), Dip HIV(UKZN), MMSc Infectious,(Cub)
Lutge EE, M Epidemiol (LSHTM), MPH, (UKZN), MB.ChB (UCT) *(Public Health Medicine)*
Lutchminarain N. MBChB (Natal), MFamMed (Natal), Dip HIV,(UKZN)
Makinga PN BSc (DRC), MD (DRC), MPH (UP), Dip Obst(SA),DipHIV (SA), AHMP (Yale), MMed Fam Med(UKZN)
Myint TM MBBS (Mandalay), FMFamMed(SU), Dip HIV (UKZN)
Mtshali ST, BSc (UCT), MBChB (Medunisa), MBA (Free State), Master Pharmaco and Health Economics (Pompeu Fabra), *(Public Health Medicine)*
Naidoo K MBChB (University of Natal), DipHIV Management (CMSA) *(Public Health Medicine)*
Nair G MBChB (UNITRA), DCH (SA), DTM&H (WITS), MPH (Natal) *(Public Health Medicine)*
Nwachukwa CC, MBBs(Nigeria), Dip Obst(SA), MPH (UP), MMedFam(UKZN)
Oguninya RO; MBBS/Ogun, DoH (UFS), FMFamMed(UFS)
Patayatchi N BSc (UDW), MBChB (Natal), DCH Paediatrics (College of Medicine), DTM&H Tropical Medicine, DPH Public Health, DHSM Hlth Management (Witwatersrand), MSc (Columbia) Public Health Medicine *(Public Health Medicine)*
Raghuathan V MBBS (India), MFamMed (Natal), Dip HIV(UKZN)
Ramplachan P MBChB (Natal), MHealthSci (Sydney) *(Family Medicine)*
Roets VL, MBCh (Wits),MMed (UP), DipPES (CMSA) *(Family Medicine)*
Ryan A MBCh, DTM&H DOH (Witwatersrand), DipAnaes (SA) *(Occupational and Environmental Health)*
Sirkan S MBChB, DA (CMSA), FCFP (CMSA) *(Family Medicine)*
Stander SC, BSN (California, San Diego), MSc Nursing (JHU) *(Nursing)*
Taal EK, BNSc (Bophutatshwane Univ), MM(P&DM), D.Litt et Phil (UP),
Tathiah N BSc (Natal), BSc (Hons) (Natal), MBChB (Natal), Dip HIV Man. (CMSA), MSc (Columbia Univ), MMed (Public Health Medicine) (UKZN), FCPHM (CMSA) *(Public Health Medicine)*
Werner L MSc (UKZN) *(Public Health Medicine)*
Yende-Zuma FN BSc (UKZN), BSc Honours (UKZN), MSc (UKZN) (Statistics) *(Public Health Medicine)*

Adjunct Lecturer
Esterhuizen TM, BScHons (Natal), MSc Epidemiology (London) *(Public Health Medicine)*

Senior Research Associates
Kjetland EF MD Medicine (University of Oslo), PhD (University of Oslo) *(Public Health Medicine)*
Kvalsvig J BA Hons, MA, PhD (Natal) *(Public Health Medicine)*
Lewis M PhD (Natal) *(Nursing)*
Webber J PhD (Natal) *(Nursing)*
Honorary Research Fellow
Chambers C, RN, RM, RNE, DipAdvMid & Neonatal Nursing Sc. (Nursing)
Corless I, PhD (Boston) (Nursing)
HaberMan M, PhD (Boston) (Nursing)
Nicholas P, DNSc (Boston) (Nursing)
THE UKZN TRANSFORMATION CHARTER

OUR VISION

The vision of the University of KwaZulu-Natal (the University) is “to be the Premier University of African Scholarship”. The achievement of this vision is dependent on the transformation of the University.

The notion of transformation which the University embraces is deeper and broader than a narrow categorization based on race and gender representation. It means changing the identity and culture of the University in every aspect of its mission.

Transformation is profoundly advanced by improving the quality of human relationships, and meaningful behavioural change can best bring the identity and culture of the University into alignment with its vision.

OUR ASPIRATIONS

We ASPIRE TO BE a transformed university which:

- Heals the divisions of our nation’s past, bridges racial and cultural divides, and lays the foundations for a university that is united in its diversity;
- Promotes high quality research, excellent teaching and learning, and responsible community engagement;
- Promotes African scholarship in every discipline and uBuntu/Botho in its organisational culture;
- Embraces socially and contextually relevant curricula that reflect the University’s location in South Africa, Africa and the World;
- Recognises the importance and value of African languages as academic languages;
- Prioritises the well-being and growth of every individual student and staff member;
- Reflects race and gender representation in its management structures, personnel profile, and student population;
- Is socially cohesive and inclusive;
- Is free of discrimination on the basis of ethnicity, race, gender, class, nationality, religion, sexual orientation and disability;
- Nurtures collegiality, recognises and respects difference, and celebrates diversity;
- Reflects a new and refreshing culture of tolerance, understanding and vibrant engagement within the University community.
OUR CURRENT CONTEXT

We RECOGNISE that:

- Our transformation has already begun, and that considerable progress has been made;
- The University nevertheless still has much to achieve to realize its transformation objectives.

OUR COMMITMENT

We COMMIT ourselves:

- to the principles and values enshrined in the Constitution of the Republic of South Africa, notably:
  (i) Human dignity, the achievement of equality and the advancement of human rights and freedoms; and
  (ii) Non-racialism and non-sexism.
- to the principles of efficiency, integration and devolution that underpin the Statute of the University;
- to the UKZN PACT, which promotes mutual respect, responsibility, and excellence in teaching and learning;
- to work together until the objectives set out below are manifested in our University.

Therefore, we the staff and students of the University of KwaZulu-Natal adopt this Transformation Charter.

OUR CHARTER

The University shall be a place where:

**Research, Teaching, Learning and Scholarship are a Vocation for All**

- Access to learning will continue to be promoted to advance social transformation and redress;
- Scholars will pursue their studies in accordance with the principle of freedom of inquiry and research;
- Scholars will advance knowledge and culture through globally-competitive research and scholarship, and research-led teaching and learning;
- Research and curricula will be socially and contextually relevant;
- African languages will be promoted as academic languages;
- The University will be student-centred and provide a caring environment for every student;
A holistic approach to education, characterized by excellence in teaching and learning, will produce skilled self-confident and socially responsible graduates, conscious of their role in contributing to the national development effort and social transformation.

Race and Gender Representation is Evident in All Structures

- The staff profile of the University at all occupational levels will reflect the demographics of our province and country;
- Gender equity within the management levels of the University will be ensured, and women will be adequately represented in all management structures;
- The implementation of employment equity and the advancement of designated groups within the University structures will be part of the performance management requirements of all line managers;
- Mentorship programmes that develop, support and nurture black and female academic staff members will be provided;
- Mentorship and professional development programmes that attract and retain staff of the highest calibre, develop all staff to their full potential, and meet equity objectives will be developed.

A Socially Cohesive and Inclusive Institutional Culture Thrives

- Social cohesion will be valued and promoted through engagement and understanding, tolerance and respect for diversity in all its forms;
- Every individual will be encouraged to promote social interaction among diverse social groupings, whether among or between staff and students;
- The University will adopt, implement and monitor policies and procedures that aim to eliminate discrimination in all its manifestations including ethnicity, race, gender, nationality, class, religion, sexual orientation and disability;
- Processes will be devised in such a way as to break a code of silence around instances of discrimination in any form;
- Structures and procedures for problem-solving and dispute resolution will be strengthened to handle grievances in a fair and constructive manner;
- The University will enhance on-going education and training for staff and students that sensitises the University community to the lived experiences of its diverse constituencies. It will in this way foster understanding and tolerance, and promote the celebration of diversity;
- The social and personal well-being of staff and students, and an enabling environment for the realization of their full human potential, will be actively promoted.
Good Modes of Governance are Enshrined

- Good corporate governance will be ensured through commitment to democratic representation, devolution, consultation, accountability and transparency;
- Governance, leadership and management will be practiced in a manner that encourages and facilitates positive, proactive, and continuous institutional transformation;
- The University leadership and management will be responsible and directly accountable for creating an environment that cherishes diversity and equity, and which is conducive to respect, tolerance and understanding.

The Right to Freedom of Expression is Guaranteed

- Every individual whether student or staff is a valued member of the University community, and each voice will have the right to be heard;
- Ongoing debate and dialogue on all aspects of transformation and organisational culture will be fostered;
- The University will enhance its role as a leader in transformation by holding regular debates and discussions that will broaden understanding, and identify trends that inhibit and obstruct transformation;
- These engagements will be conducted according to commonly developed “rules of debate” appropriate to a university that espouses critical thinking and well-founded argument;
- Members of Senate will participate actively in debates and discussions and will assume a responsibility in preparing the University for the advent of the broader transformational challenges inherent in global change and the achievement of the University’s vision;
- The right to freedom of expression will be counterbalanced by responsibility, accountability and the limitations spelt out within the Constitution of the Republic of South Africa.

Advancement of the Transformation Agenda is the Responsibility of All

- All members of the University community will understand the meaning of transformation and accept individual and collective responsibility for its advancement;
- Leaders within all stakeholder groupings will play a critical role in advancing the transformation agenda;
- Leaders will develop a shared understanding of transformational leadership behaviour, and practice it;
- Key stakeholder groupings will commit to the process of transformation, and contribute actively to it by clearly defining their roles and responsibilities, and improving interpersonal stakeholder relationships at all levels;
- Academics will embrace the notion that universities are places of reflection to extend the boundaries of human existence and will acknowledge the centrality of human relationships in
meeting the challenges of our times, and in realising the vision and strategic objectives of the University;

- Students will recognise that they have individual and collective responsibilities to participate in the building of an institutional identity based on mutual respect and tolerance;
- Staff members will take pride in making the University an institution where courtesy; accountability; mutual respect and efficiency are core values.
University of KwaZulu-Natal Pact

We, the staff and students of the University of KwaZulu-Natal agree to treat each other with respect, to abide by the rules and regulations of the institution and to commit ourselves to excellence in research-led teaching and learning.

Isivumelwano seNyuvesi yaKwaZulu-Natali

Thina, singabasebenzi nabafundi baseNyuvesi yaKwaZulu-Natali sivumelana ngokuthi siphathane ngenhlonipho, silandlele yonke imithetho nemigomo yesikhungo futhi sizibophezela ekufundeni nasekufundiseni okuholwa ucwaning nokunobunyoningco
# Sessional Dates 2018

**Howard College, Pietermaritzburg and Westville Campuses**

<table>
<thead>
<tr>
<th>Sessional Dates</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td>Monday, 05 February – Friday, 22 June</td>
</tr>
<tr>
<td><strong>Easter Vacation</strong></td>
<td>Saturday, 24 March – Monday, 02 April</td>
</tr>
<tr>
<td><strong>Winter Vacation</strong></td>
<td>Saturday, 23 June – Sunday, 15 July</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>Monday, 16 July – Tuesday, 27 November</td>
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</tbody>
</table>

## Pre-Semester:

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>Mon, 01 – Fri, 05 Jan</td>
<td>University opens</td>
</tr>
<tr>
<td>Mon, 08 – Fri, 12 Jan</td>
<td>(Programme specific) Self-help registration system opens</td>
</tr>
<tr>
<td>Mon, 15 – Fri, 19 Jan</td>
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<tr>
<td>Mon, 22 – Sat, 27 Jan</td>
<td>Deadline for submission of Exclusion Appeals</td>
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<td>Deadline for applications for remarks</td>
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<tr>
<td>Fri, 26 Jan</td>
<td>CEACOM (College Exclusion Appeals Com.) meetings</td>
</tr>
<tr>
<td>Sat, 27 Jan</td>
<td>Parents’ Day</td>
</tr>
<tr>
<td>Mon, 29 Jan – Sat, 03 Feb</td>
<td>Orientation and on-campus registration of students</td>
</tr>
<tr>
<td>Thu, 01 Feb</td>
<td>AEACOM (Academic Exclusion Appeals Com.) meetings</td>
</tr>
</tbody>
</table>

## Semester 1:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date Range</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Mon, 05 – Fri, 09 Feb</td>
<td>First Semester commences</td>
</tr>
<tr>
<td></td>
<td>Mon, 05 Feb</td>
<td>Lectures commence</td>
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<tr>
<td>2</td>
<td>Mon, 12 – Fri, 16 Feb</td>
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<td>3</td>
<td>Mon, 19 – Fri, 23 Feb</td>
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<tr>
<td>4</td>
<td>Mon, 26 Feb – Fri, 02 Mar</td>
<td>Registration deadline for returning Research Masters &amp; Doctoral students</td>
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<tr>
<td></td>
<td>Wed, 28 Feb</td>
<td>To follow Friday’s timetable</td>
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<tr>
<td></td>
<td>Thu, 01 Mar</td>
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<td>Date Range</td>
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</table>
| Fri, 02 Mar | **(Compensatory day)**  
Final date for minimum fee payment required for student registration  
Final date for 1st Semester registration  
Final date for requests for extended DPs  
Final date for submitting curriculum changes |
| Mon, 05– Fri, 09 Mar | Fri, 09 Mar  
Final day for capturing graduation decisions onto ITS for the students who had outstanding requirements. (Honours, Bachelors, Diplomas and Certificates) |
| Mon, 12 – Fri, 16 Mar |  |
| Mon, 19 – Fri, 23 Mar | Wed, 21 Mar  
**Human Rights Day (Public Holiday)**  
Fri, 23 Mar  
Final day for capturing graduation decisions onto ITS (Masters and Doctoral Studies) |
| Sat, 24 Mar – Mon, 02 Apr | EASTER VACATION (STUDENT MID-TERM BREAK)  
Fri, 30 Mar  
**Good Friday (Public Holiday)**  
Mon, 02 Apr  
**Family Day (Public Holiday)** |
| Tue, 03 – Fri, 06 Apr |  |
| Mon, 09 – Fri, 13 Apr | Fri, 13 Apr  
Final date for withdrawal from a module  
Final date for withdrawal from the University (Semester 1)  
Final timetable for main & supplementary exams released |
| Mon, 16 – Sat, 21 Apr | Mon, 16 – Sat, 21 Apr  
Graduation Ceremonies (WVL) |
| Mon, 23 – Fri, 27 Apr | Mon, 23 – Tue, 24 Apr  
Graduation Ceremonies (PMB)  
**Fri, 27 Apr**  
**Freedom Day (Public Holiday)** |
| Mon, 30 Apr – Fri, 04 May | Mon, 30 Apr  
Final date for payment of 60% of fees for year registrations or 100% for semester 1 registrations  
**Tue, 01 May**  
**Workers’ Day (Public Holiday)** |
| Mon, 07 – Fri, 11 May |  |
### Sessional Dates

<table>
<thead>
<tr>
<th>Session</th>
<th>Dates</th>
<th>Events</th>
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<tbody>
<tr>
<td>14</td>
<td>Mon, 14 – Fri, 18 May</td>
<td>Wed, 16 May</td>
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<td></td>
<td></td>
<td>Thu, 17 May</td>
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<tr>
<td></td>
<td></td>
<td>Fri, 18 – Tue, 22 May</td>
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<tr>
<td>15</td>
<td>Mon, 21 – Sat, 26 May</td>
<td>Mon, 21 May</td>
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<td>Wed, 23 May</td>
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<tr>
<td>16</td>
<td>Mon, 28 May – Sat, 02 Jun</td>
<td>Mon, 28 May – Sat, 02 Jun</td>
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<td>17</td>
<td>Mon, 04 – Fri, 08 Jun</td>
<td>Thu, 07 Jun</td>
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<td>Fri, 08 Jun – Tue, 12 Jun</td>
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<tr>
<td>18</td>
<td>Mon, 11 – Sat, 16 Jun</td>
<td>Wed, 13 Jun</td>
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<td>Thu, 14 Jun</td>
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<td>Sat, 16 Jun</td>
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<td>19</td>
<td>Mon 18 – Fri, 22 Jun</td>
<td>Fri, 22 Jun</td>
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</table>

**Semester 1:**
- Teaching days: Monday 13, Tuesday 13, Wednesday 13, Thursday 14, Friday 12: **65 days**
- Compensatory day: (Thursday 01 March, follows Friday’s timetable)
- Study leave: 5 days; Main Examinations: 14 days; Supplementary Exams: 7 days;

### MID-YEAR BREAK (Winter Vacation)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Mon, 02 Jul</td>
<td>Supplementary Exam marks to be captured on SMS by 12h00</td>
</tr>
<tr>
<td>Mon, 09 Jul</td>
<td>Release of 1st semester results after Exam Boards at 00:01 am</td>
</tr>
</tbody>
</table>

### SEMESTER 2:

<table>
<thead>
<tr>
<th>Session</th>
<th>Dates</th>
<th>Events</th>
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<tbody>
<tr>
<td>1</td>
<td>Mon, 16 – Fri, 20 Jul</td>
<td>Mon, 16 Jul</td>
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<td></td>
<td></td>
<td>Wed, 18 Jul</td>
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<tr>
<td>Week</td>
<td>Dates</td>
<td>Events</td>
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<td>2</td>
<td>Mon, 23 – Fri, 27 Jul</td>
<td>Fri, 20 Jul</td>
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<td>Tue, 24 Jul</td>
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<td>Fri, 27 Jul</td>
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<td>3</td>
<td>Mon, 30 Jul – Fri, 03 Aug</td>
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<td>4</td>
<td>Mon, 06 – Fri, 10 Aug</td>
<td>Tue, 07 Aug</td>
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<td>Thu, 09 Aug</td>
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<td>5</td>
<td>Mon, 13 – Fri, 17 Aug</td>
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<td>6</td>
<td>Mon, 20 – Fri, 24 Aug</td>
<td>Wed, 22 – Sat, 25</td>
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<tr>
<td>7</td>
<td>Mon, 27 – Fri, 31 Aug</td>
<td>Mon, 27 Aug</td>
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<td>Fri, 31 Aug</td>
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<td>8</td>
<td>Mon, 03 – Fri, 07 Sep</td>
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<tr>
<td>9</td>
<td>Sun, 09 – Fri, 14 Sep</td>
<td>Sun, 09 – Tue, 11 Sep</td>
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<td>Wed, 12 – Thu, 13 Sep</td>
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<td>Fri, 14 Sep</td>
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<td>Date Range</td>
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<tr>
<td>Sat, 15 Sep – Mon, 24 Sep &lt;br&gt; Tue, 18 – Wed, 19 Sep</td>
<td>STUDENT MID-TERM BREAK &lt;br&gt; Yom Kippur (condoned absence)</td>
<td></td>
</tr>
<tr>
<td>10 Mon, 24 – Fri, 28 Sep</td>
<td>Mon, 24 Sep</td>
<td>Heritage Day (Public Holiday)</td>
</tr>
<tr>
<td>11 Mon, 01 – Fri, 05 Oct</td>
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<tr>
<td>12 Mon, 08 – Fri, 12 Oct</td>
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<td></td>
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<tr>
<td>13 Mon, 15 – Fri, 19 Oct</td>
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<td></td>
</tr>
<tr>
<td>14 Mon, 22 – Sun, 28 Oct</td>
<td>Mon, 22 Oct</td>
<td>DP refusals published</td>
</tr>
<tr>
<td></td>
<td>Tue, 23 Oct</td>
<td>Lectures end</td>
</tr>
<tr>
<td></td>
<td>Wed, 24 – Sun, 28 Oct</td>
<td>Study period</td>
</tr>
<tr>
<td></td>
<td>Thu, 25 Oct</td>
<td>Final date for submission of DP Appeals to School Offices</td>
</tr>
<tr>
<td>15 Mon, 29 Oct – Sat, 03 Nov</td>
<td>Mon, 29 Oct</td>
<td>Second Semester Exams commence (incl. Saturday)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final date for submission of College handbooks for 2019</td>
</tr>
<tr>
<td>16 Mon, 05 – Sat, 10 Nov</td>
<td>Mon, 05 – Sat, 10 Nov</td>
<td>Exam week</td>
</tr>
<tr>
<td></td>
<td>Wed, 07 Nov</td>
<td>Diwali/Deepavali (Condoned absence) (no exams)</td>
</tr>
<tr>
<td>17 Mon, 12 – Sun, 18 Nov</td>
<td>Wed, 14 Nov</td>
<td>Second Semester Exams end</td>
</tr>
<tr>
<td></td>
<td>Thu, 15 – Mon, 19 Nov</td>
<td>Break between Exams</td>
</tr>
<tr>
<td>18 Mon, 19 – Sat, 24 Nov</td>
<td>Tue, 20 Nov</td>
<td>2nd Semester Supplementary Exams commence</td>
</tr>
<tr>
<td>19 Mon, 26 - Fri, 30 Nov</td>
<td>Tue, 27 Nov</td>
<td>2nd Semester Supplementary Exams end</td>
</tr>
<tr>
<td></td>
<td>Fri, 30 Nov</td>
<td>Second Semester ends</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Last day for submission of theses/dissertations to the Post-Graduate Administrative Offices for possible April 2019 Graduation</td>
</tr>
</tbody>
</table>
### Semester 2:
- Teaching days: Monday 13, Tuesday 14, Wednesday 13, Thursday 12, Friday 13: **65 days**
- Compensatory days: (Tuesday, 07 August, follows Thursday’s timetable)
- Study leave: 5 days; Examinations: 14 days; Supplementary Exams: 7 days

### YEAR-END BREAK:

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon, 03 – Fri, 07 Dec</td>
<td>Fri, 07 Dec</td>
<td>Supplementary marks to be captured on SMS by 12h00</td>
</tr>
<tr>
<td>Mon, 10 – Fri, 14 Dec</td>
<td>Fri, 14 Dec</td>
<td>Release of 2nd semester results after Exam Boards (00:01 am)</td>
</tr>
<tr>
<td>Mon, 17 – Fri, 21 Dec</td>
<td>Mon, 17 Dec</td>
<td>Day of Reconciliation (Public Holiday observed)</td>
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<td></td>
<td>Fri, 21 Dec</td>
<td>University Offices close</td>
</tr>
</tbody>
</table>

### PLEASE NOTE:
- Sessional Dates for both the School of Medicine and the School of Education will be published separately.
- BComHons(Acc) and PGDip(Acc): Winter vacation will end a week early (i.e. 08 Jul); and lectures will end on Friday 07 September. There will be no Sept. mid-term break; and year-end exams (incl. supps) will run from 26 Sept. to 09 Nov.
- All Bachelor of Nursing students are required to attend clinical training and community work during vacations in the year from the 8 January 2018 up until the 21 December 2018.
- The University of KwaZulu-Natal reserves the right to change any of the said Sessional Dates, solely in its discretion, and without any liability for inconvenience and/or loss occasioned thereby.
<table>
<thead>
<tr>
<th>Sessional Dates</th>
<th>SEMESTER 1:</th>
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<tbody>
<tr>
<td>1</td>
<td>Mon, 01 – Fri, 05 Jan</td>
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<td>Mon, 08 – Fri, 12 Jan</td>
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<td>Mon, 15 – Fri, 19 Jan</td>
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<td>Mon, 22 – Sat, 27 Jan</td>
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<td>Mon, 29 Jan– Sat, 03 Feb</td>
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<td>6</td>
<td>Mon, 05 – Fri, 09 Feb</td>
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<td>7</td>
<td>Mon, 12 – Fri, 16 Feb</td>
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<td>Week</td>
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<tr>
<td>8</td>
<td>Mon, 19 – Fri, 23 Feb</td>
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<td>9</td>
<td>Mon, 26 Feb – Fri, 02 Mar</td>
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<td>10</td>
<td>Mon, 05– Fri, 09 Mar</td>
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<td>11</td>
<td>Mon, 12 – Fri, 16 Mar</td>
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<td>Mon, 19 – Fri, 23 Mar</td>
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<td>13</td>
<td>Mon, 26 Mar – Fri, 30 Mar</td>
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<tr>
<td>14</td>
<td>Mon, 02 – Fri, 06 Apr</td>
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<td>Mon, 09 – Fri, 13 Apr</td>
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<td>16</td>
<td>Mon, 16 – Sat, 21 Apr</td>
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<tr>
<td>17</td>
<td>Mon, 23 – Fri, 27 Apr</td>
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<td>Date</td>
<td>Event</td>
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<tr>
<td>Mon, 30 Apr – Fri, 04 May</td>
<td>Mon, 30 Apr</td>
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<tr>
<td>Tue, 01 May</td>
<td>Workers’ Day (Public Holiday)</td>
</tr>
<tr>
<td>Mon, 07 – Fri, 11 May</td>
<td>Mon, 14 – Fri, 18 May</td>
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<td>Mon, 14 – Fri, 18 May</td>
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<tr>
<td>Mon, 18 – Fri, 22 Jun</td>
<td>Mon, 14 – Fri, 18 May</td>
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<td>Mon, 21 – Fri, 25 May</td>
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<td>Mon, 21 May</td>
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<td>Mon, 28 May – Fri, 01 Jun</td>
<td>Mon, 28 May – Fri, 01 Jun</td>
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<td>Mon, 28 May – Fri, 01 Jun</td>
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<td>Mon, 28 May – Fri, 01 Jun</td>
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<td>Mon, 04 – Fri, 08 Jun</td>
<td>Mon, 04 – Fri, 08 Jun</td>
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<td>Mon, 04 – Fri, 08 Jun</td>
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<tr>
<td>Mon, 11 – Sat, 16 Jun</td>
<td>Mon, 11 Jun</td>
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<td>Mon, 11 – Fri, 15 Jun</td>
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<td>Mon, 11 – Fri, 15 Jun</td>
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<td></td>
<td>Mon, 11 – Fri, 15 Jun</td>
</tr>
<tr>
<td>Thu, 14 Jun</td>
<td>Eid-Al-Fitr (condoned absence) (no exams)</td>
</tr>
<tr>
<td>Sat, 16 Jun</td>
<td>Youth Day (Public Holiday) (no exams)</td>
</tr>
<tr>
<td>Mon, 18 – Fri, 22 Jun</td>
<td>Mon, 18 Jun</td>
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<td>Mon 18 – Fri, 22 Jun</td>
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<td>Mon 18 – Fri, 22 Jun</td>
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<tr>
<td>Mon, 25 – Fri, 29 Jun</td>
<td>Mon, 25 Jun</td>
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<tr>
<td>Mon, 02 – Fri, 06 Jul</td>
<td>Mon, 02 Jul</td>
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<tr>
<td>Date</td>
<td>Event Description</td>
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<tr>
<td>Mon, 09 – Fri, 13 Jul</td>
<td>Release of 1st semester results after Exam Boards at 00:01</td>
</tr>
<tr>
<td>Tues, 10 Jul</td>
<td>MBChB 2nd 3rd Yr- Lectures Commence</td>
</tr>
<tr>
<td>Mon, 16 – Fri, 20 Jul</td>
<td>MBChB 1st Yr- Semester 2 Lectures Commence</td>
</tr>
<tr>
<td>Wed, 18 Jul</td>
<td>Deadline for submission of Exclusion Appeals</td>
</tr>
<tr>
<td>Fri, 20 Jul</td>
<td>CEACOM meetings (College Exclusion Appeals Com.)</td>
</tr>
<tr>
<td>Fri, 27 Jul</td>
<td>Deadline for applications for re-marks</td>
</tr>
<tr>
<td>Tue, 24 Jul</td>
<td>AEACOM meeting (Academic Exclusion Appeals Com.)</td>
</tr>
<tr>
<td>Fri, 27 Jul</td>
<td>Final date for payment of all fees required for student registration (2nd semester).</td>
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<tr>
<td></td>
<td>Final date for registration – 2nd Semester</td>
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<td></td>
<td>Final date for requests for extended DPs</td>
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<td></td>
<td>Final date for submitting curriculum changes</td>
</tr>
<tr>
<td>Mon, 30 Jul – Fri, 03 Aug</td>
<td>MBChB 4th &amp; 5th Yr – Block 4 Exam Week</td>
</tr>
<tr>
<td>Mon, 06 – Fri, 10 Aug</td>
<td>MBChB 4th &amp; 5th Yr – Block 5 commences</td>
</tr>
<tr>
<td>Mon, 06 – Fri, 10 Aug</td>
<td>MBChB 6th Yr – Block 4 Exam Week</td>
</tr>
<tr>
<td>Thu, 09 Aug</td>
<td>National Women’s Day (Public Holiday)</td>
</tr>
<tr>
<td>Mon, 13 Aug</td>
<td>MBChB 6th Yr – Block 5 commences</td>
</tr>
<tr>
<td>Mon, 20 – Fri, 24 Aug</td>
<td>Eid-Al-Adhah (condoned absence)</td>
</tr>
<tr>
<td>Wed, 22 – Sat, 25</td>
<td>Final day for capturing graduation decisions onto ITS (all qualifications incl. doctoral studies)</td>
</tr>
<tr>
<td>Mon, 27 – Fri, 31 Aug</td>
<td>Final date for payment of all fees</td>
</tr>
<tr>
<td>Mon, 03 – Fri, 07 Sep</td>
<td>Rosh Hashanah (condoned absence)</td>
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<tr>
<td>Sun, 09 – Fri, 14 Sep</td>
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<tr>
<td>Sessional Dates</td>
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<tr>
<td><strong>Mon, 10 – Fri, 14 Sep</strong></td>
<td>MBChB 4th &amp; 5th Yr – Block 5 Exam Week</td>
</tr>
<tr>
<td><strong>Wed, 12 – Thu, 13 Sep</strong></td>
<td>Spring Graduations (All ceremonies held in WVL)</td>
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<tr>
<td><strong>Fri, 14 Sep</strong></td>
<td>Final date for withdrawal from the University (Sem. 2)</td>
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<td></td>
<td>Final date for withdrawal from a module</td>
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<td>Final timetable for main and supplementary examinations released</td>
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<tr>
<td><strong>Mon, 17 Sep</strong></td>
<td>MBChB 4th &amp; 5th Yr – Block 6 commences</td>
</tr>
<tr>
<td><strong>Tue, 18 – Wed, 19 Sep</strong></td>
<td>Yom Kippur (condoned absence)</td>
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<tr>
<td><strong>Mon, 24 Sep</strong></td>
<td>Heritage Day (Public Holiday)</td>
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<tr>
<td><strong>Mon, 24 – Fri, 28 Sep</strong></td>
<td>MBChB 6th Yr – Block 5 Exam Week</td>
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<tr>
<td></td>
<td>MBChB 3rd Yr- Lectures End</td>
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<tr>
<td></td>
<td>MBChB 1 Vacation Week</td>
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<tr>
<td><strong>Mon, 01 – Fri, 05 Oct</strong></td>
<td>MBChB 6th Yr – Block 6 commences</td>
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<tr>
<td></td>
<td>MBChB 3rd Yr- Exam Study Week</td>
</tr>
<tr>
<td><strong>Mon, 08 – Fri, 12 Oct</strong></td>
<td>MBChB 3rd Yr- Exam Week</td>
</tr>
<tr>
<td><strong>Mon, 15 – Fri, 19 Oct</strong></td>
<td>MBChB 2nd Yr- DP Refusals</td>
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<tr>
<td></td>
<td>MBChB 3rd Yr- SUPP Exam Week</td>
</tr>
<tr>
<td><strong>Mon, 22 – Fri, 26 Oct</strong></td>
<td>MBChB 4th &amp; 5th Yr – Block 6 Exam Week</td>
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<tr>
<td></td>
<td>MBChB 3rd Yr- Cardinal Symptoms Start</td>
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<tr>
<td></td>
<td>Final date for submission of DP Appeals to School Offices</td>
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<tr>
<td></td>
<td>MBChB 1st and 2nd Yr- Lectures End</td>
</tr>
<tr>
<td><strong>Mon, 29 Oct – Fri, 02 Nov</strong></td>
<td>MBChB 4th &amp; 5th Yr – Study week</td>
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<tr>
<td></td>
<td>MBChB 1st and 2nd Study Week</td>
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<td></td>
<td>Final date for submission of College handbooks for 2019</td>
</tr>
<tr>
<td><strong>Mon, 05 – Fri, 09 Nov</strong></td>
<td>MBChB 4th &amp; 5th Yr – Supp Exams Week 1</td>
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<tr>
<td></td>
<td>MBChB 1st and 2nd Yr - Exam Commence</td>
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<tr>
<td>Date</td>
<td>Activities</td>
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<tr>
<td>Wed, 07 Nov</td>
<td><strong>Diwali/Deepavali (Condoned absence)</strong> (no exams)</td>
</tr>
<tr>
<td>Mon, 12 – Fri, 16 Nov</td>
<td>MBChB 4th &amp; 5th Yr – Supp Exams Week 2</td>
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<tr>
<td>Mon, 19 Nov</td>
<td>MBChB 6th Yr – Study week</td>
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<tr>
<td>Mon, 19 – Fri, 23 Nov</td>
<td>MBChB 6th Yr – Vacation commences</td>
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<tr>
<td>Mon, 19 Nov</td>
<td>MMed Semester 2 – Assessment Week 1</td>
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<tr>
<td>Mon, 19 – Fri, 23 Nov</td>
<td>MBChB 1st and 2nd SUPP Week</td>
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<tr>
<td>Mon, 26 – Fri, 30 Nov</td>
<td>MBChB 6th Yr – Supp Exams week</td>
</tr>
<tr>
<td>Mon, 26 – Fri, 30 Nov</td>
<td>MMed Semester 2 – Assessment Week 2</td>
</tr>
<tr>
<td>Fri, 30 Nov</td>
<td>Last day for submission of theses/dissertations to the Post-Graduate Administrative Offices for possible April 2019 Graduation</td>
</tr>
<tr>
<td>Mon, 03 – Fri, 07 Dec</td>
<td>MBChB 6th Yr – Vacation commences</td>
</tr>
<tr>
<td>Fri, 07 Dec</td>
<td>Supplementary marks to be captured on SMS by 12h00</td>
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<tr>
<td>Mon, 10 – Fri, 14 Dec</td>
<td>Release of 2nd semester results after Exam Boards (00:01 am)</td>
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<tr>
<td>Mon, 17 Dec</td>
<td>Day of Reconciliation (Public Holiday observed)</td>
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<tr>
<td>Tue, 18 – Wed, 19 Dec</td>
<td>MBChB 6th Year – HPCSA registration</td>
</tr>
<tr>
<td>Fri, 21 Dec</td>
<td>University Offices close</td>
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</tbody>
</table>

**Please note:** The University of KwaZulu-Natal reserves the right to change any of the said Sessional Dates, solely in its discretion, and without any liability for inconvenience and/or loss occasioned thereby.
ACADEMIC MONITORING AND EXCLUSION

INFORMATION for STUDENTS

INTRODUCTION

The Academic Monitoring and exclusions Policy applies to all students registered in undergraduate degrees across all Colleges. An extract from the policy is included below for the information of students.

The Academic Monitoring and Exclusion Policy is based on a system of classifying student academic performance as “good academic standing”; “at risk” or “severely underperforming” with appropriate interventions and actions for each category. Every undergraduate student’s performance is assessed at the end of each semester and their status, based on their academic performance at the end of the semester or subsequent supplementary exams, is determined and reflected on the student administration system as “green”, “orange” or “red”.

The aim of this policy is to enable underperforming students to be identified early and offered academic, personal and careers counselling. Appropriate interventions and systems of support are expected to reduce dropout rates and exclusions and to improve throughputs and completion rates.

Specifically the implementation of this policy means that no academically underperforming student will be excluded from the university in their first year of study. However, it also means that if a student does not respond to support interventions and continues to underperform, s/he will be required to appeal for readmission to the same or a different College after three semesters at university. If readmitted and does not meet set probation requirement while on final probation, then the student will be excluded after four semesters and no further appeals allowed.

Appeals are first considered at College level (CEACOM). All unsuccessful appeals will be referred to a university wide committee (AEACOM) for final decision.

Students will finally be excluded from the university on account of poor academic performance after all other avenues have failed to restore their academic performance to the required level.

Exclusion holds for a minimum period of one year unless otherwise stipulated. Thereafter a student may apply for admission to the same or another College at UKZN if s/he is able to demonstrate that s/he has achieved a level of competence satisfactory to the relevant College or has resolved the personal circumstances that led to poor performance. Admission or readmission will be at the discretion of the College to which the student applies and according their admission requirements. Colleges will specify broad guidelines for what will be deemed satisfactory competence level for readmission.
CLASSIFICATION OF ACADEMIC PERFORMANCE

Each College defines minimum progression requirements, either on a College-wide basis or per qualification or group of qualifications. These are used in categorising academic performance. The categories of academic performance and the consequent interventions and actions are as follows:

**Good academic standing (Green)**

New students who register for the first time and have not transferred from another College of the university are initially deemed to be of good academic standing and coded green. A student remains coded green provided s/he has passed at least 75% of the maximum expected credit load to date and also has passed 70% or more of the normal credit load this semester. These are regarded as acceptable performance levels; however optional counselling and support is available if requested.

**At risk (Orange)**

A student who is at risk is required to participate in a compulsory developmental programme including academic counselling, a possible modified curriculum as well as student counselling for personal, life skills and/or career counselling.

A student may be deemed “at risk” when:

- his/her performance is above the applicable minimum progression requirements for that qualification or College but is not at the level of “green”, that is, s/he has not passed 75% of the maximum expected credits to date;
- fewer than 70% of the normal credit load has been passed in the current semester.
- credits are below the applicable minimum progression requirements for that qualification or College but the student has been registered for 1 semester only, the student is placed on academic probation with specific and realistic conditions. Even if such a student is performing below the applicable minimum progression requirements s/he will remain at risk (orange) provided s/he continues to meet the set probation requirements which are reviewed each semester

**Underperforming (Red)**

A student will be coded red when his/her performance falls below the applicable minimum progression requirements for that qualification or College and s/he has been registered for 2 semesters or more. The first time a student becomes “red” s/he is placed on strict academic probation. After compulsory academic and personal or career counselling s/he may be permitted to continue in the same qualification or may be advised to redirect to another qualification in the same or another College.

A student will become “red” for a second time if s/he does not achieve the probation conditions set in the previous semester or if, after improving performance for a period, the student again drops below the required levels. In this case, the student must appeal to be readmitted to the
same or a different qualification or College. If a student is readmitted following a successful appeal, s/he is placed on final probation with specific conditions to be met and continued academic support.

If a student who was severely underperforming (“red”) responds to interventions, achieves probation requirements and eventually works back to good academic standing (“green”), s/he will be deemed to be rehabilitated and the previous period as “red” will not be considered should s/he subsequently lapse.

If a student does not respond to such interventions and s/he continues to underperform s/he must appeal for readmission and may or may not be readmitted on final probation. If readmitted and still does not respond to interventions while on final probation the student will be excluded. No further appeals are allowed.

Students who transfer between qualifications carry their history and academic status with them. Students will normally only be accepted into a new qualification if they are able to complete the new degree in the maximum time permitted for this degree, which includes the semesters they have already spent at UKZN and for which they may have generated credits towards the new degree.

The implementation of the policy is illustrated in the flow diagram below.
HEALTH SCIENCES

UNDERGRADUATE ACADEMIC MONITORING & EXCLUSION POLICY

(to be applied when performance in end of semester examinations is considered) (Reviewed October 2011)

Students current status is:

Good academic standing (green):
- New student or no warning term decision codes given at last ERS session
- Passed ≥75% normal credit load this semester?
  - Y: Green
  - N: Passed ≥75% max expected credits to date?
    - Y: Orange
    - N: Above min applicable progression requirements?
      - Y: Red
      - N: Been registered 1 semester only?
        - Y: FPRR/FPDR
        - N: RISK
- RISK

At risk (orange):
- Term decision codes RISK or RISK2 given at last ERS session
- Passed ≥75% max expected credits to date?
  - Y: Green (rehabilitated)
  - N: Achieved any probation targets?
    - Y: Red
    - N: Previous exclusion (not rehabilitated)
      - Y: FPRR/FPDR
      - N: Above min applicable progression requirements?
        - Y: Orange
        - N: RISK
- RISK

Under performing (red):
- 1) On STRICT probation. Term decision codes FPRR, FPDR or PROB given previously
- 2) On FINAL probation after successful CEACOM or AEACOM appeal
- Term decision codes FPMA or FPDS given previously followed by a readmission decision.
- Achieved probation targets?
  - Y: N: Previous appeal?
    - Y: CEACOM/AEACOM
      - Appealsubmitted?
        - Y: SUSPENDED Must appeal or reapply
        - N: XAC
      - XNFA (possible discretion)
        - N: RTA
          - RAPB/RDPB
            - Y: RASA/RDSA/RFA/RDF
              - On FINAL probation
                - Red
      - XACA/B/C/D
        - N: RTA
          - RAPB/RDPB
            - Y: RASA/RDSA/RFA/RDF
              - On FINAL probation
                - Red
  - N: PROB
  - Continue on probation
Calculation of Points for the National Senior Certificate

Points for the NSC are calculated according to the table below:

<table>
<thead>
<tr>
<th>NSC Rating</th>
<th>NSC Percentage</th>
<th>NSC Points Rating for UKZN</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>90% to 100%</td>
<td>8</td>
</tr>
<tr>
<td>7</td>
<td>80% to 89%</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>70% to 79%</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>60% to 69%</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>50% to 59%</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>40% to 49%</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>30% to 39%</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>0% to 29%</td>
<td>1</td>
</tr>
</tbody>
</table>

Note that the points will be calculated from six Subjects excluding Life Orientation.
GENERAL ACADEMIC RULES FOR DEGREES, DIPLOMAS AND CERTIFICATES

(These Rules have been made by the Senate and approved by the Council in terms of the Higher Education Act (Act No. 101 of 1997), as amended.)

PREAMBLE:
(a) The Council and/or the Senate may from time to time amend, alter or delete any rule, whether a General Rule or a rule relating to a specific module or qualification.

(b) Where applicable, the interpretation of these Rules is informed by the Definitions of Terms preceding them.

(c) The provisions of these Rules, as applied in particular colleges, may be restricted in circumstances provided for in the rules of those colleges as approved under Rule GR4.

(d) Except as otherwise stated or prescribed by the Senate and the Council, Rules GR1 to GR33 shall be applicable to every student of the University of KwaZulu-Natal (hereinafter referred to as “the University”).

Definitions of Terms

“academic exclusion” means termination of a student’s registration on academic grounds, resulting in exclusion from the university.

“admission” means the act by which the university admits person to study, after acceptance by an applicant of an offer of a place at the University.

“ancillary module” means a module required as a corequisite or prerequisite to a proposed module. All such modules must have been passed before the relevant qualification may be awarded. Note: if module A is an ancillary for module B and B is an ancillary for C, then A is necessarily an ancillary for C.

“assessment” means the evaluation and grading of work, supervised or unsupervised, carried out by a student in satisfying the requirements of a module.

“credit points” are a measure of the volume of learning required for a qualification, quantified as a number of notional study hours.

“credit-weighted average” is the average mark of a set of modules weighted in proportion to the credit value of the modules concerned.

“college academic affairs board” means the board established in each college as provided for in the statute and is responsible for the academic and research functions of the school in the college.
“corequisite module” means a module for which a student must register in the same semester as the proposed module, unless the ancillary module has already been passed or attempted with satisfaction of the DP requirements.

“Council” means the Council of the University of KwaZulu-Natal.

“coursework modules” refers to the taught components of all coursework degrees specified in the curriculum and does not include the dissertation or project modules.

“curriculum” means the combination of modules which together comprise the programme of study leading to a qualification. An individual student's curriculum refers to the specific selection of modules within the broad framework of the curriculum prescribed for a qualification, which enables the student to meet the requirements for the qualification.

“degree credits” are used to satisfy the requirements for qualifications. Unless otherwise stated “credits” means degree credits and the term “degree credits” is used only when it is necessary to distinguish them from foundation credits.

“dissertation” means a work involving personal research, that is (a) capable of being recorded in any form or medium, and (b) capable of being evaluated, that is submitted for a degree and satisfies degree specific requirements (for doctoral degrees, see “thesis”).

“duly performed (DP) requirements” means those college-approved requirements for a module which must be met to permit a student to be eligible for final assessment in that module.

“elective module”, means a module that a student selects according to preference from a specified list of module options.

“examination” means a formal assessment, conducted within an officially designated examination session, usually invigilated, and bound by time constraints.

“exit-level module” means a module at the highest level required by the Higher Education Qualifications Framework (HEQF) for a qualification.

“external examination” means examination by a person, external to the university, who has not been involved with teaching including supervision at the University during the previous three (3) years.

“foundation credits” are a measure of the amount of formal foundational material in the curriculum, and may not be used in lieu of degree credits to satisfy the requirements of qualifications.

“full-time student” is a student who is able to devote at least 40 hours a week to their studies and undertake a full credit load of coursework and/or research in each semester.

"independent moderation" means examination by a person, internal or external to the university, who has not been involved with the teaching of the relevant module in that semester.

“internal examination” means examination by a person or persons involved with the teaching
of the relevant module in that semester or, in the case of postgraduate qualifications, is a member of the University academic staff including persons who hold honorary appointments in the University other than the supervisor(s).

“major” means completion of at least 64 credits at exit level and at least 32 credits in the preceding year in that discipline or in any other closely related specified discipline.

“matriculation certificate” means evidence to the satisfaction of Senate of having obtained a National Senior Certificate (NSC) endorsed for Bachelors degrees OR a Matriculation Certificate of the Matriculation Board OR a Matriculation Board Certificate stating that the candidate has satisfied the conditions prescribed by the Board for exemption from the Matriculation Examination.

“module” means any separate course of study for which credits may be obtained and may comprise a dissertation or thesis.

“qualification” means a degree, diploma or certificate.

“part-time student” is one who is unable to devote the required time to their studies and spreads their degree over a longer period, taking fewer credits than the required credit load of a full-time student in each semester.

“prerequisite module” means a module which must have been passed, with at least the minimum mark required, before registration for the proposed module is permitted.

“prerequisite requirement” means that requirement, whether a prerequisite module, a specified mark in a module or any other condition, which must have been met before registration for the proposed module is permitted.

“programme” means a purposeful and structured curriculum leading to a qualification.

“project” means a substantial assignment, whether comprising a single module or part of a module, and which requires research or equivalent independent work by a student.

“registered student” means a student who is registered to study in one or more modules offered by the University. Such registration will lapse on the date of the following registration session or earlier should the student cease to be an admitted student.

“registration” means completion by a student, and acceptance by the University, of a registration form, physical or electronic, and compliance with such other conditions as are required for entitlement to a current student card.

“Senate” means the Senate of the University of KwaZulu-Natal.

“special examination” means an examination awarded by the Senate to a student who has not been able to attempt or complete the original examination by reason of illness or any other reason deemed sufficient by the Senate. Only the component of the examination which has not been attempted or completed shall be re-written.
“student” means a person who has been admitted to the University for the purpose of studying or who has registered for a qualification. A student remains a student until such time as that person graduates or otherwise completes studies, or withdraws from the University, or fails to attend or register in any semester, or is excluded and all appeal processes for readmission have been exhausted.

“supplementary examination” means an examination awarded by the Senate to a student, based on the student’s performance in the original module assessment. All examination papers which constitute the module shall be re-written.

“suspended registration” means an agreement by which the University holds a student’s registration in abeyance for a specified period of time.

“tertiary institution” means any institution that provides post-school education on a full-time, part-time or distance basis.

“thesis” means a work involving personal research, that is (a) capable of being recorded in any form or medium, and (b) capable of being evaluated, that is submitted for a doctoral degree and satisfies the requirements specified in the relevant rules.

“the University” means the University of KwaZulu-Natal.

“year of study” means the level at which undergraduate students are registered academically.

(a) foundation year: applies to students who are registered in the first year of a foundation programme for a preparatory certificate

(b) first year of study: applies to students who have not yet obtained at least 96 (degree) credits

(c) final year of study: applies to students in a programme who have registered for such modules as will, if passed, lead to the completion of the qualification.

“working days” means any day of the week but excluding Saturdays, Sundays and public holidays.
General Rules

GR1 Changes in rules
(a) The University may revise or add to its rules from time to time, and any such alteration or addition shall become binding upon the date of publication or upon such date as may be specified by the Council and the Senate, provided that no change in rules shall be interpreted so as to operate retrospectively to the prejudice of any currently registered student.

(b) Any authority granted to colleges under these rules may be further delegated.

GR2 Degrees, diplomas and certificates
The University may confer or award such degrees, diplomas and certificates as approved by the Senate and the Council.

Note:  (a) The list of degrees, diplomas and certificates is available from the Registrar’s Office on request.

(b) Rules for specific qualifications will be found in the relevant college handbooks.

GR3 Approval of curricula
The Senate, after consultation with the relevant college academic affairs board, shall approve the curricula for all qualifications of the University.

GR4 College rules
Subject to the provisions of the Higher Education Act, the Statute of the University, and the following Rules, the Senate may make or amend rules for each college relating to:

a) the eligibility of a student as a candidate for any qualification and/or module, which may include recognition of prior learning (RPL);
b) the selection process;
c) the period of attendance;
d) the curriculum, work and other requirements for each qualification;
e) progression and academic exclusion; and
f) any other matter relating to the academic functions of the University.

GR5 Application to study

a) Applications to study must be made in such manner as prescribed, and must include presentation of the Matriculation Certificate where this is required.

b) An applicant who has studied at any other tertiary education institution must, in addition, present an academic record and a certificate of conduct from that institution.
GR6 Selection requirements

All applicants shall produce evidence satisfactory to the Senate of their competence to work for the qualification sought. The Senate may decline to admit as a candidate for the qualification any person whose previous academic attainments are, in its opinion, not sufficiently high to warrant such admission.

GR7 Selection for postgraduate studies

a) Graduates of any other recognised university (whether in the Republic of South Africa or elsewhere) may, for the purpose of proceeding to a postgraduate qualification of the University, be admitted by the Senate to a status in the University equivalent to that which they possess in their own university by virtue of any degree held by them.

b) An applicant who has graduated from another tertiary institution or who has in any other manner attained a level of competence which, in the opinion of the Senate, is adequate for the purpose of postgraduate studies or research, may be admitted as a student of the University.

GR8 Exemption from a module

a) Exemption from a module may be granted without credit, where an applicant can demonstrate an equivalent level of competence through prior learning.

b) Exemption and credit for a module may be granted where an applicant has already obtained credit for an equivalent module at this or another university.

c) Credit cannot be obtained for more than one module where the contents of the modules overlap or are partially or substantially the same.

GR9 Registration

a) In order to pursue their studies in any semester, all students of the University shall complete the applicable registration procedure, thereby affirming their acceptance of the rules of the University.

b) The Council, on the recommendation of the Senate, may impose conditions for the registration of any student.

c) Except as provided for hereunder, a student shall register in consecutive semesters.

(i) On application in advance to the relevant college and with the approval of the college academic affairs board, a student’s registration may be suspended for a period of time not exceeding 2 semesters. Under exceptional circumstances, a further such suspension of 2 semesters may subsequently be applied for and approved.

(ii) The deputy vice chancellor and head of college may require that a student suspend his/her studies for a maximum of 1 semester should the student be unable to register for a valid curriculum that will allow satisfactory progress to be made towards the attainment of the qualification.
(iii) A student with a suspended registration remains subject to the rules of the University, and may return to register before or at expiry of the period of suspension. The period during which registration is suspended shall not be included in and calculation towards the minimum and maximum periods prescribed for any qualification in terms of Rule GR12, nor for the evaluation of eligibility for the award of degrees *cum laude* or *summa cum laude* in terms of Rules BR6, HR8, CR17 and MR13.

d) Should a student fail to register for a semester:

(i) In the case of a postgraduate student who has not been granted suspension as provided for in (c) (i) or (ii) above the student must apply to the relevant college for readmission should she/he subsequently wish to return to resume studies. Such readmission shall only be approved under the conditions, rules and curricula applicable at the time of readmission and, in the case of a postgraduate research student, provided that supervisory capacity is available.

(ii) In the case of an undergraduate student, should the break in studies exceed one semester and the student has not been granted suspension as provided for in (c)(i) or (ii) above, the student must apply to the relevant college for readmission should he/she subsequently wish to return to resume studies. Such readmission shall only be approved under the conditions, rules and curricula applicable at the time of readmission.

e) (i) A student may register as a full-time or part-time student (see definitions); such initial registration status shall persist for a minimum period of two semesters after first registration.

(ii) A part-time student may not register for more than 65% of the normal full-time credit load of coursework modules in each semester unless otherwise provided for in the College rules.

(iii) In the case of a full-time student who subsequently changes registration status to part-time, the full-time criteria for award of degree *cum laude* or *summa cum laude* shall apply;

(iv) In the case of a student who changes registration status from full-time or vice-versa, the semesters allowed for completion of the qualification will be prorated accordingly.

GR10 Payment of fees

a) Save by special permission of the Senate and the Council:

(i) An applicant shall not be registered until all relevant prescribed fees are paid;

(ii) A student shall not be entitled to admission to an examination, nor to receipt of examination results, until all relevant prescribed fees are paid.

b) A student shall not be entitled to the conferral or award of a qualification until all monies due to the University have been paid.
GR11 Concurrent registration
a) Save by special permission of the Senate:
   (i) no student shall be registered for more than one qualification at the same time; nor
   (ii) shall any student, while registered at any other tertiary institution, be registered concurrently at the University.

GR12 Period of attendance
Every candidate for a qualification shall meet the relevant attendance and performance requirements for each module and qualification as prescribed by the relevant college and approved by the Senate, in order to obtain the requisite credit.

GR13 Module registration
a) Subject to Rule GR14, no student shall be registered for any module unless his or her curriculum has been approved by the Senate. An approved curriculum may be modified only with the consent of the Senate.
b) Save by special permission of the Senate, no student may attend a module for which he or she is not registered.

GR14 Ancillary, prerequisite and corequisite requirements
a) A college may prescribe ancillary modules in any curriculum.
b) A college may specify the attainment of a minimum mark of more than 50% in a prerequisite module, a specified mark in a module or any other requirement before registration for the proposed module is permitted.
c) Registration for a module will be conditional on meeting all corequisite and prerequisite requirements for that module.

GR15 Obsolete modules
In readmitting a student, the Senate may withhold recognition, for the purposes of a qualification, of credits previously obtained in modules which have subsequently become obsolete.

GR16 Duly Performed (DP) certification
a) Students shall not present themselves for examination in any module unless the module co-ordinator / lecturer has certified that they have met the DP requirements for the specified module.
b) Such DP certification shall be valid only for the examinations, including supplementary examinations, of the semester in which it is issued.
c) With the consent of the school board concerned, in exceptional circumstances, the DP
certification may be extended to the relevant subsequent semester, in which case the board may allow the student to retain the relevant class mark.

d) The DP requirements for each module shall be published in the college handbook and in any other manner deemed appropriate by the college.

e) Save as may otherwise be provided by the college, for each module a list of those students refused DP certification shall be published, in a manner deemed appropriate by the college on or before the last day of teaching in each semester.

**GR17 DP certification - right of appeal**

a) Students have the right to appeal against the refusal of a DP certification in terms of Rule GR16.

b) An appeal must be lodged with the relevant school, in the prescribed manner, on or before the date specified in the sessional dates which shall be no less than three (3) working days after the last day of notification of DP refusals.

c) Such appeal shall be considered by an appropriate committee, the composition of which shall be approved by the Senate.

d) The decision of the committee shall be final.

**GR18 Examinations**

a) An examination may be written and/or oral, and may include practical work.

b) With the approval of the college academic affairs board, a written examination may, for a particular student, be replaced or supplemented by an oral examination.

**GR19 External examination and moderation**

a) Except with the permission of the Senate, all modules, other than exit-level modules, shall be subject to internal examination and independent moderation.

b) Except with the permission of the Senate, all exit-level modules shall be subject to internal and external examination.

c) The portion of the total assessment subject to independent moderation or external examination, in terms of (a) or (b) above, shall be at least 50%.

**GR20 Examination scripts**

a) To aid academic development, students may view their examination scripts under supervision.

b) (i) A student may, on formal application and after payment of the applicable fee, have all his/her examination scripts for a module re-marked, normally by the original examiners, in accordance with the policies approved by the Senate and the Council.

   (ii) Such application shall be lodged with the relevant school office, in the prescribed manner, on or before the date in the sessional dates.
(iii) The student’s final mark for the module shall be that determined by the re-mark.
(iv) The fee shall be refunded only if the re-mark causes an improvement in the class of result as reflected in Rule GR29(a).

c) Re-marking as contemplated in (b) above shall not be permitted for honours and equivalent projects, master’s dissertations and doctoral theses.

d) Examination scripts shall be stored by the University for a maximum period of one (1) year or such longer period required by contractual or professional obligations.

**GR21 Examination sessions**

All examinations shall be held in the prescribed sessions approved by the Senate.

**GR22 Supplementary examinations**

Supplementary examinations may be awarded in terms of these rules and the relevant college rules. Supplementary examinations shall not be awarded for any continuously assessed modules or components of modules.

**GR23 Special examinations**

a) An undergraduate student may elect to write all the examination papers for a particular module in either the main or supplementary examination session, provided that such a supplementary examination is scheduled. The provisions of rule GR25(b) shall apply.

b) A student who has not been able to complete the original final examination by reason of illness or any other reason deemed sufficient by the Senate, may, on application, be granted permission to sit a special examination, during the next applicable supplementary examination session.

c) An application for a special examination shall be made on the prescribed form, accompanied by all relevant documentation, and lodged in the relevant college within five (5) working days of the date of the examination concerned. It is the responsibility of the student to ascertain whether or not the special examination has been granted.

d) If an application for a special examination is approved, the examination result, if any, from the original examination shall be regarded as null and void. If such an application is not approved the original examination result shall stand.

**GR24 Standard of supplementary and special examinations**

To pass supplementary and special examinations, students must demonstrate a level of academic competence equivalent to that required in the original examination.

**GR25 Limitation on awarding supplementary and special examinations**

a) A supplementary or special examination shall not be granted in respect of any supplementary examination awarded in terms of Rule GR22.
b) A supplementary or special examination shall not be granted in respect of any special examination awarded in terms of Rule GR23.

**GR26 Completion of modules**

Every module shall be completed by passing the Senate-approved assessment in that module.

**GR27 Pass mark**

The pass mark for all modules in the University shall be 50%, provided that any sub-minima required in certain components of the Senate-approved assessment have been met.

**GR28 Completion requirements**

Save by special permission of the Council, upon the approval of the Senate, a qualification shall not be conferred or awarded until:

a) credit has been obtained for all prescribed modules, including prerequisite and corequisite modules;

b) all other Senate and college requirements have been met; and

c) all monies due to the University have been paid.

**GR29 Classification of results**

a) Results may be classified as follows:

- 75% upward = 1st class;
- 70 – 74% = 2nd class, upper division;
- 60 – 69% = 2nd class, lower division;
- 50 – 59% = 3rd class;
- less than 50% = fail. Based on the credit weighted average of all modules passed.

b) For Bachelors and Honours degrees, the academic record of the student shall reflect the class of pass if the student has obtained a pass in the first class or in the second class upper division.

c) On the recommendation of the school board, a module may be passed with such distinctions as may be prescribed by the Senate.

d) On the recommendation of the college academic affairs board, a qualification may be conferred or awarded with such distinctions as may be prescribed by the Senate.

**GR30 Academic exclusion**

a) The Council may, with the approval of the Senate, after each examination session exclude or refuse to renew or continue the registration of a student who has failed to meet the academic requirements for continued registration.

b) The Senate may cancel the registration of a student in all or one or more of the modules
for which the student is registered in a semester if, in the opinion of the Senate, the academic achievement of the student is such that the student may not at the end of the semester obtain credit in such module or modules.

c) The Council may, with the approval of the Senate, refuse readmission to a student who fails to satisfy the minimum requirements for readmission.

d) Subject to Rule GR31, students excluded or refused re-registration may not be readmitted to the University until they are able to demonstrate that they have achieved a level of competence satisfactory to the relevant college and the Senate.

**GR31 Academic exclusion – right of appeal**

a) Students have the right to a single appeal against academic exclusion in terms of Rule GR30.

b) Such appeal shall be lodged with the college of registration, in the prescribed manner, on or before the date in the sessional dates.

c) The process for consideration of such an appeal shall be approved by the Senate.

**GR32 Ethics**

All academic activities and research in particular, shall comply with the relevant University policies on ethics and any related requirements as determined by the Senate and the Council.

**GR33 Reproduction of work**

Subject to the provisions of the University’s policy on intellectual property rights and any limitations imposed by official contractual obligations:

a) In presenting an assignment, prescribed project, dissertation, thesis or any such work for assessment, a student shall be deemed by so doing to have granted the University a perpetual, non-exclusive, royalty-free licence to digitise, reproduce, share, disseminate and/or publicly distribute copies thereof for research and study purposes only, in whole or in part and in any format the University deems fit, provided that the University may waive its rights under this licence if the work in question has been or is being published in a manner satisfactory to the University.

b) Students shall forward master copies and electronic copies of all treatises, dissertations and theses to the University libraries by the date, in the numbers and in the format stipulated by the libraries in their policies existing at the time of creation of the treatise, dissertation or thesis concerned.

c) The work of students shall not be included in publications by academic staff without their express permission and acknowledgement; provided that such work may be included and acknowledged if all reasonable attempts to trace such students have been unsuccessful.
Rules for Bachelors Degrees

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

BR1 Applicability

The following Rules, BR2 to BR6 inclusive, shall be applicable to every candidate for a Bachelors Degree.

BR2 Criteria for admission to study

a) Applicants for a first or primary degree for which the Matriculation Certificate is a prerequisite, shall produce evidence to the satisfaction of the Senate that they have obtained such a certificate, or obtained a certificate of conditional exemption issued by the Matriculation Board to applicants from countries outside the Republic of South Africa, or satisfied the conditions of any alternative admission process approved by the Senate.

b) In addition to the requirements of a) above, the minimum requirements for admission to study in any college may include the requirement to have attained such minimum standard in a specified subject or subjects or such aggregate of points scored according to subjects passed in the Matriculation Examination, or in an examination recognised for the purpose by the Matriculation Board, or such other qualifications as may be prescribed. The selection process will be based on these requirements and may include academic ranking and other criteria as approved by the Senate and the Council.

BR3 Periods of attendance

Every candidate for a first or primary degree, shall be registered as a matriculated student, except as provided in Rule BR2, and have completed subsequent to the date of validity of the Matriculation Certificate or of the certificate of full exemption from the matriculation examination issued by the Matriculation Board, the minimum period of attendance prescribed by the rules of the relevant college.

BR4 Recognition of attendance

For the purpose of Rules GR12 and BR3, the Senate may accept as part of the attendance of a student for a degree of Bachelor, periods of attendance as a registered matriculated student at any other university or tertiary institution or in any other college in the University: provided that students shall not have the degree of Bachelor conferred unless:

a) their periods of attendance are together not less than the complete period prescribed for such degree; and

b) they attended at the University:

   (i) for a degree of Bachelor, the term of which is six semesters, at least three semesters which shall include the completion of at least half of the total number of credits
prescribed for the degree and which, except with the approval of the Senate, shall include all those at the exit level; or

(ii) for a degree of Bachelor, the term of which is eight semester, at least four semesters which shall include the completion of at least half of the total number of credits prescribed for the degree and which, except with the approval of the Senate, shall include all those at the exit level; or

(iii) for a degree of Bachelor, the term of which is ten or twelve semesters, at least six semesters which, except with the approval of the Senate, shall include the completion of all modules prescribed for the final six semesters of the curriculum.

**BR5 Progression under conditional exemption**

Applicants who are accepted with an ordinary conditional exemption that requires completion of additional credits to qualify for exemption, shall not be permitted to register for any module at level 3 or above before the requirements for exemption have been satisfied.

**BR6 Supplementary examinations**

Provided that the rules of any college do not prohibit this for a particular module:

a) a student who fails a module with a mark of at least 40%, or who obtains a passing mark less than that prescribed for registration for another module, shall be awarded a supplementary examination;

b) under exceptional circumstances, and with the permission of the college academic affairs board, a student who has failed a module with a mark of less than 40% may be awarded a supplementary examination.

**BR7 Award of degree *cum laude* and *summa cum laude***

a) A degree of Bachelor may be conferred *cum laude* in accordance with the rules of the relevant college, provided that, subject to exceptions as approved by the college academic affairs board, the student has:

(i) obtained a credit-weighted average of at least 75% in those modules required for the qualification; and

(ii) successfully completed all modules in the curriculum at the first attempt and without recourse to supplementary examinations; and

(iii) completed the degree in the prescribed minimum time.

b) A degree of Bachelor may be conferred *summa cum laude* in accordance with the rules of the relevant college, provided that, subject to exceptions as approved by the college academic affairs board, the student has:

(i) obtained a credit-weighted average of at least 80% in those modules required for the qualification; and
(ii) successfully completed all modules in the curriculum at the first attempt and without recourse to supplementary examinations; and
(iii) completed the degree in the prescribed minimum time.

BR8 Deans Commendation

A student who is registered for the full load required for that qualification in a particular semester and passes all these modules at the first attempt, with no individual module mark of less than 60% and a credit-weighted average mark of at least 75%, will be awarded a Dean’s commendation for that semester.

BR9 Completion of isiZulu module

For a degree of Bachelor, a student must either pass an approved module in isiZulu; or obtain exemption from the module under GR8a (competence through prior learning) in which case any shortfall in credit for the degree shall be made up; or obtain exemption and credit for the module under GR8b (an equivalent module has been passed).

Rules For Honours Degrees

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

HR1 Applicability

The following Rules, HR2 to HR8 inclusive, shall be applicable to every candidate for a degree of Honours.

HR2 Criteria for admission to study

a) Applicants may be registered for the qualification of Honours provided that they have:
   (i) completed a Bachelors degree regarded as appropriate by the college concerned; or
   (ii) been admitted to the status of that degree in terms of Rule GR7(a); or
   (iii) attained a level of competence as defined in Rule GR7(b).

b) A college may prescribe further minimum criteria for admission to study.

HR3 Attendance

a) Every student for a qualification of Honours shall attend an approved course of study as a registered student of the University for a period of at least two consecutive semesters after admission in terms of Rule HR2.

b) Except with by permission of the college academic affairs board, all modules shall be completed at the University.
HR4 Curriculum
The curriculum for a qualification of Honours shall include a prescribed research project as one of the modules which shall account for a minimum of 25% of the credits for the degree.

HR5 Supplementary examinations
Provided that the rules of a college do not prohibit this for a particular module:

a) a student who fails a module other than the research prescribed project with a mark of at least 40% shall be awarded a supplementary examination; and
b) under exceptional circumstances, and with the permission of the college academic affairs board, a student who has failed a module other than the research project with a mark of less than 40% may be awarded a supplementary examination.

HR6 Re-examination of prescribed project
Provided that the rules of a college, do not prohibit this, a research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester.

HR7 Progression
a) A student may repeat a failed module not more than once, provided that this does not apply to the prescribed project described in Rule HR4 and HR6 above.
b) A student who, after four semesters as a fulltime student or six semesters as a part-time student, has not completed the requirements for the degree, shall be excluded.

HR8 Award of degree cum laude and summa cum laude
a) A degree of Honours may be conferred cum laude in accordance with the rules of the relevant college, provided that, subject to exceptions as approved by the college academic affairs board, the student has:
   (i) obtained a credit-weighted average of at least 75% in those modules required for the qualification; and
   (ii) a mark of at least 75% for the prescribed project; and
   (iii) successfully completed all modules in the curriculum without recourse to supplementary examinations; and
   (iv) completed the degree in the prescribed minimum time for a full-time student, or minimum time plus two semesters for a part-time student.
b) A degree of Honours may be conferred summa cum laude in accordance with the rules of the relevant college, provided that, subject to exceptions as approved by the college academic affairs board, the student has:
(i) obtained a credit-weighted average of at least 80% in those modules required for the qualification; and
(ii) a mark of at least 80% for the prescribed project; and
(iv) successfully completed all modules in the curriculum without recourse to supplementary examinations; and completed the degree in the prescribed minimum time for a full-time student, or minimum time plus two semesters for a part-time student.

Rules for Postgraduate Diplomas

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

PR1 Applicability

The following Rules, PR2 to PR8 inclusive, shall be applicable to every candidate for a Postgraduate Diploma

PR2 Criteria for admission to study

a) Applicants may be registered for the qualification of Postgraduate Diploma provided that they have:
   (i) completed a Bachelors degree regarded as appropriate by the college concerned; or
   (ii) been admitted to the status of that degree in terms of Rule GR7(a); or
   (iii) attained a level of competence as defined in Rule GR7(b).

b) A college may prescribe further minimum criteria for admission to study.

c) A college may provide in its rules for an appropriate Advanced Diploma to be accepted for entry to a Postgraduate Diploma in accordance with the HEQF.

PR3 Attendance

a) Every student for the qualification of Postgraduate Diploma shall attend an approved course of study as a registered student of the University for a period of at least two consecutive semesters after admission in terms of Rule PR2.

b) Except with the permission of the college academic affairs board, all modules shall be completed at the University.

PR4 Curriculum

The curriculum for the Postgraduate Diploma will contain advanced reflection, practice and research methods in the area of specialisation and may include a sustained research project in accordance with college rules.
PR5 Supplementary examinations

Provided that the rules of a college do not prohibit this for a particular module:

a) a student who fails a module other than the research prescribed project with a mark of at least 40% shall be awarded a supplementary examination; and

b) under exceptional circumstances, and with the permission of the college academic affairs board, a student who has failed a module other than the research project with a mark of less than 40% may be awarded a supplementary examination.

PR6 Re-examination of research project

Provided that the rules of a college do not prohibit this, a research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the close of the applicable supplementary examination session.

PR7 Progression

a) A student may repeat a failed module not more than once, provided that this does not apply to the research project described in Rule PR4 and PR6 above.

b) A student who, after four semesters as a full-time student or six semesters as a part-time student, has not completed the requirements for the diploma, shall be excluded.

PR8 Award of diploma with distinction

A qualification of Postgraduate Diploma may be conferred with distinction in accordance with the rules of the relevant college, provided that, subject to exceptions as approved by the college academic affairs board, the student has:

(i) obtained a credit-weighted average of at least 75% over all modules required for the qualification; and

(ii) successfully completed all modules in the curriculum without recourse to supplementary examinations; and

(iii) completed the diploma in the prescribed minimum time for a full-time student, or minimum time plus two semesters for a part-time student.

Rules for Masters Degrees by Coursework

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

CR1 Applicability

The following Rules, CR2 to CR17 inclusive, shall be applicable to every candidate for a degree of Master by coursework.

CR2 Criteria for admission to study

a) An applicant shall not be registered for the degree of Master by coursework unless the
applicant has:
(i) satisfied the requirements for a relevant prerequisite degree as specified in the college concerned; or
(ii) been admitted to the status of that degree in terms of Rule GR7(a); or
(iii) attained a level of competence as defined in Rule GR7(b).

b) A college may prescribe further minimum criteria for admission to study.

**CR3 Recognition of examinations**

The Senate may accept examinations passed or certificates of proficiency completed in any module by a student of the University or of any other university or institution recognised by the Senate for this purpose, or accept demonstration of an equivalent level of competence through prior learning, in terms of Rule GR7(b), as exempting the student from examination in module(s) prescribed for a degree of Master by coursework, provided that:

a) no more than 50% of the required credits for the degree may be so exempted, provided that such credits shall be awarded for coursework modules only; and

b) students shall not have the degree of Master conferred unless the conditions laid down in Rules CR4 and CR5 are satisfied.

**CR4 Periods of registration**

A student registered for the degree of Master by coursework shall be so registered for a minimum period of two consecutive semesters before the degree may be conferred.

**CR5 Recognition of attendance**

The Senate may accept as part of the attendance of a student for a degree of Master by coursework, periods of attendance as a registered or graduated student at any other university or institution or in any other college, provided that students shall not have the degree of Master conferred unless:

a) their periods of attendance are together not less than the complete period prescribed for conferral of the degree; and

b) the research component is completed at the University.

**CR6 Curriculum**

a) A student shall complete all prescribed modules, at least one of which shall be a dissertation module comprising research on a particular topic approved by the college academic affairs board, and comply with such other conditions as may be prescribed by the Senate and the rules of the college concerned.

b) Except with the permission of Senate, the dissertation module shall comprise 33% to 50% of the total credits for the degree.
CR7 Proposed research topic

a) The college academic affairs board may, at its discretion, decline to approve a research topic if in its opinion:
   (i) it is unsuitable in itself; or
   (ii) it cannot effectively be undertaken under the supervision of the University; or
   (iii) the conditions under which the student proposes to work are unsatisfactory.

b) Ethical approval in terms of Rule GR32 is required where applicable.

CR8 Supervision

The school board shall, in terms of the policies of the Senate, appoint one or more appropriate supervisors, at least one of whom shall be a member of the University academic staff, to advise a student whose research topic is approved, and the student shall be required to work in such association with the supervisor or supervisors.

CR9 Supplementary examinations

Provided that the rules of a college do not prohibit this for a particular module:

a) a student who fails a module other than the dissertation with a mark of at least 40% shall be awarded a supplementary examination;

b) under exceptional circumstances, and with the permission of the college academic affairs board, a student who has failed a module other than the dissertation with a mark of less than 40% may be awarded a supplementary examination.

CR10 Failed coursework modules

Failed coursework modules may not be repeated, except with the permission of the College Academic Affairs Board.

CR11 Progression

A student who, after four semesters as a full-time student or six semesters as a part-time student, has not completed the requirements for the degree shall be required to apply for re-registration, which will only be permitted on receipt of a satisfactory motivation.

CR12 Submission of dissertation

At least three months before the dissertation is to be submitted for examination, a student shall give notice, in writing, of their intention to submit such dissertation and the title thereof, provided that, in the event of a student failing to submit the dissertation for examination within six months thereafter, the notice will lapse and a further notice of intention shall be submitted.
CR13 Format of dissertation

a) Every dissertation submitted shall include a declaration to the satisfaction of the Senate stating that it has not previously been submitted for a degree in this or any other university, and that it is the student's own original work.

b) Every dissertation submitted shall be in such format as prescribed by the Senate and the rules of the relevant college; provided that each dissertation shall include an abstract in English not exceeding 350 words.

c) A dissertation may comprise one or more papers of which the student is the prime author, published or in press in peer-reviewed journals approved by the relevant college academic affairs board or in manuscripts written in a paper format, accompanied by introductory and concluding integrative material.

d) A dissertation submitted under (c) above shall include a detailed description of the student’s own distinct contribution to the papers.

e) All dissertations are subject to full examination in terms of these rules, the rules of a college and the normal policies and procedures applicable to dissertations.

CR14 Supervisor’s report

Upon submission of the dissertation, the supervisor or supervisors shall furnish a report on the conduct of the student's work; the report shall not include an evaluation of the quality of the dissertation.

CR15 Examination of dissertation

a) The college academic affairs board shall appoint for each dissertation two examiners, at least one of whom shall be responsible for external examination.

b) A supervisor or co-supervisor shall not be appointed as an examiner.

c) The names of the examiners shall not be known to either the candidate or to one another.

CR16 Re-examination of dissertation

A failed dissertation may not be re-examined.

CR17 Award of degree *cum laude* and *summa cum laude*

The degree of Master by Coursework may be awarded *cum laude* or *summa cum laude* on the recommendation of the examiners of the dissertation and, in accordance with rules of the college provided that, subject to exceptions approved by the college academic affairs board,

a) For *cum laude*:
   i) the student has obtained a credit weighted average of at least 75% in the coursework component of the degree at the first attempt and without recourse to supplementary examinations; and
ii) the degree was completed in the prescribed minimum time plus two semesters for a full-time student, or minimum time plus four semesters for a part-time student.

b) For *summa cum laude*:
   i) the student has obtained a credit weighted average of at least 80% in the coursework component of the degree at the first attempt and without recourse to supplementary examinations; and
   ii) the degree was completed in the prescribed minimum time for a full-time student, or minimum time plus two semesters for a part-time student.

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**Rules for Masters Degrees by Research**

*Note: The following Rules are additional to the preceding General Rules GR1 – GR33.*

**MR1 Applicability**

The following Rules, MR2 to MR13 inclusive, shall be applicable to every candidate for a degree of Master by research.

**MR2 Criteria for admission to study**

a) An applicant shall not be registered for the degree of Master by research unless the applicant has:
   i) satisfied the requirements for a relevant prerequisite degree as specified in the college concerned; or
   ii) been admitted to the status of that degree in terms of Rule GR7(a); or
   iii) attained a level of competence as defined in Rule GR7(b).

b) A college may prescribe further minimum criteria for admission to study.

**MR3 Periods of registration**

A student registered for the degree of Master by research shall be so registered for a minimum period of two consecutive semesters before the degree may be conferred.

**MR4 Curriculum**

a) A student for the degree of Master by research shall be required to pursue an approved programme of research on some subject falling within the scope of the studies represented in the University.

b) A student shall also comply with such other conditions as may be prescribed by the Senate and the rules of the college concerned.
MR5 Proposed subject of study

a) Before registration, an applicant for the degree of Master by research shall submit for the approval of the college academic affairs board a statement of the proposed subject of study.

b) The college academic affairs board may, at its discretion, decline to approve such subject if, in its opinion:
   (i) it is unsuitable in itself, or
   (ii) it cannot profitably be studied or pursued under the supervision of the University, or
   (iii) the conditions under which the applicant proposes to work are unsatisfactory.

c) Ethical approval in terms of Rule GR32 is required where applicable.

MR6 Supervision

The school board shall, in terms of the policies of the Senate, appoint one or more appropriate supervisors, at least one of whom shall be a member of the University academic staff, to advise a student whose research topic is approved, and the student shall be required to work in such association with the supervisor or supervisors.

MR7 Progression

A student who, after four semesters as a full-time student or six semesters as a part-time student, has not completed the requirements for the degree shall be required to apply for re-registration, which will only be permitted on receipt of a satisfactory motivation.

MR8 Submission of dissertation

a) Every student for the degree of Master by research shall be required to submit a dissertation embodying the results of their research.

b) At least three months before the dissertation is to be submitted for examination, a student shall give notice, in writing, of their intention to submit such dissertation and the title thereof, provided that, in the event of a student failing to submit the dissertation for examination within six months thereafter, the notice will lapse and a further notice of intention shall be submitted.

MR9 Format of dissertation

a) Every dissertation submitted shall include a declaration to the satisfaction of the Senate stating that it has not previously been submitted for a degree in this or any other university, and that it is the student's own original work.

b) Every dissertation submitted shall be in such format as prescribed by the Senate and the rules of the relevant college; provided that each dissertation shall include an abstract in English not exceeding 350 words.
c) A dissertation may comprise one or more papers of which the student is the prime author, published or in press in peer-reviewed journals approved by the relevant college academic affairs board or in manuscripts written in a paper format, accompanied by introductory and concluding integrative material.

d) A dissertation submitted under (c) above shall include a detailed description of the student’s own distinct contribution to the papers.

e) All dissertations are subject to full examination in terms of these rules, the rules of a college and the normal policies and procedures applicable to dissertations.

MR10 Supervisor’s report

Upon submission of the dissertation, the supervisor or supervisors shall furnish a report on the conduct of the student’s work; the report shall not include an evaluation of the quality of the dissertation.

MR11 Examination

a) The college academic affairs board shall appoint for each dissertation two examiners, at least one of whom shall be responsible for external examination.
b) A supervisor or co-supervisor shall not be appointed as an examiner.
c) The names of the examiners shall not be known to either the candidate or to one another.

MR12 Re-examination of dissertation

A failed dissertation may not be re-examined.

MR13 Award of degree *cum laude* and *summa cum laude*

The degree of Master by research may be awarded *cum laude* or *summa cum laude* on the recommendation of the examiners, and in accordance with rules of the relevant college provided that the degree was completed:

a) For *cum laude*: in the prescribed minimum time plus two semesters for a full-time student, or minimum time plus four semesters for a part-time student.
b) For *summa cum laude*, in the prescribed minimum time for a full-time student, or minimum time plus two semesters for a part-time student.

Rules for the Doctoral Degree by Research

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

DR1 Applicability

The following rules, DR2 to DR13 inclusive, shall be applicable to every candidate for a Doctoral degree.
DR2 Criteria for admission to study

a) An applicant shall not be registered for a Doctoral degree unless the applicant has:
   (i) satisfied the requirements for a relevant prerequisite degree as specified in the college concerned; or
   (ii) been admitted to the status of that degree in terms of Rule GR7(a); or
   (iii) attained a level of competence as defined in Rule GR7(b).

b) A college may prescribe further minimum criteria for admission to study.

c) Candidates, registered for a research Masters degree, who have completed the requirements for the Masters degree, may apply to have their registration converted to a Doctoral degree registration before the Masters degree is awarded. The time allowed for the Doctoral degree would be reduced by two semesters. The material from the Masters dissertation may then be used towards the Doctoral degree. If the Doctoral degree is not completed, the Masters degree will be awarded.

DR3 Periods of registration

A student registered for a Doctoral degree shall be so registered for a minimum period of four semesters before the degree may be conferred.

DR4 Curriculum

a) 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 University.

b) 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.

c) A student shall also comply with such other conditions as may be prescribed by the Senate and the rules of the college concerned.

DR5 Proposed subject of study

a) Before registration, an applicant for a Doctoral degree shall submit for the approval of the college academic affairs board a statement of the proposed subject of study.

b) The Senate may, at its discretion, decline to approve such subject if, in its opinion:
   (i) it is unsuitable in itself, or
   (ii) it cannot profitably be studied or pursued under the supervision of the University, or
   (iii) the conditions under which the applicant proposes to work are unsatisfactory.

c) Ethical approval in terms of Rule GR32 is required where applicable.

DR6 Supervision

The school board shall appoint one or more appropriately qualified supervisors, at least one of
whom shall be a member of the University staff, to advise a student whose research topic is approved, and the student shall be required to work in such association with the supervisor or supervisors.

**DR7 Progression**

A student who, after eight semesters as a full-time student or ten semesters as a part-time student, has not submitted a thesis for examination shall be required to apply for reregistration, which will only be permitted on receipt of a satisfactory motivation.

**DR8 Submission of thesis**

a) Every student for a Doctoral degree shall be required to submit;
   (i) a thesis embodying the results of their research, together with
   (ii) one (1) published paper or an unpublished manuscript that has been submitted to an accredited journal, arising from the doctoral research unless the thesis is in the format as described in DR9 c).

b) At least three months before the thesis is to be submitted for examination, a student shall give notice, in writing, of their intention to submit such thesis and the title thereof, provided that, in the event of a student failing to submit the thesis for examination within six months thereafter, the notice will lapse and a further notice of intention shall be submitted.

**DR9 Format of thesis**

a) Every thesis submitted shall include a declaration to the satisfaction of the Senate stating that it has not previously been submitted for a degree in this or any other university, and that it is the student's own original work.

b) Every thesis submitted shall be in such format as prescribed by the Senate and the rules of the relevant college; provided that each thesis shall include an abstract in English not exceeding 350 words.

c) A thesis may comprise one or more original papers of which the student is the prime author, published or in press in peer-reviewed journals approved by the college academic affairs board, accompanied by introductory and concluding integrative material.

d) A thesis submitted under c) above shall include a detailed description of the student's own distinct contribution to the papers.

**DR10 Supervisor's report**

Upon submission of the thesis, the supervisor or supervisors shall furnish a report on the conduct of the student's work; the report shall not include an evaluation of the quality of the thesis.
DR11 Examination

a) The college academic affairs board shall appoint for each thesis three examiners, at least two of whom shall be responsible for external examination.

b) Except with the permission of the college academic affairs board, at least one of the external examiners shall be based external to the country.

c) A supervisor or co-supervisor shall not be appointed as an examiner.

d) The names of the examiners shall not be known to either the candidate or to one another.

DR12 Defence of thesis

As part of the examination process, a student may be required to defend a thesis.

DR13 Re-examination of thesis

A failed thesis may not be re-examined.

Rules for Senior (Unsupervised) Doctoral Degrees

Note: The following Rule is additional to the preceding General Rules GR1 – GR33.

DS1 Applicability

a) The following rules, DS2 to DS7 and DR 12 and DR13 inclusive shall also be applicable to every candidate for a senior (unsupervised) Doctoral degree.

b) Additional rules governing the requirements for senior Doctoral degrees in particular colleges may be prescribed by the Senate and the Council.

DS2 Criteria for admission

a) An applicant shall not be registered for the Senior (unsupervised) Doctoral degree through research unless the applicant:

(i) has a doctoral degree, and

(ii) is a graduate of this or another University of not less than 10 years standing.

b) With the permission of the college academic affairs board, a candidate who does not meet the requirements in a) above may be admitted in terms of Rule GR7(b).

c) A college may prescribe further minimum criteria for admission.

DS3 Period of registration

A candidate for the degree of Senior Doctoral must register for at least two semesters.

DS4 Subject of study

a) A candidate for the senior (unsupervised) Doctoral degree shall submit for the approval of
the college academic affairs board a summary in not more than 500 words, specifying the field of research covered by the published works and their appropriateness for the degree.

b) The senate may, at its discretion, decline to accept the published works if, in its opinion:
   (i) they are unsuitable in themselves, or
   (ii) the published work does not fall within the colleges of the University.

**DS5 Submission of thesis**

a) Every candidate for the senior (unsupervised) Doctoral degree through research shall be required to submit a thesis or a portfolio embodying a collection of published work, representing a significant contribution of knowledge and showing evidence of originality and clarity of thought, and of application of research methods appropriate to the particular field of study.

b) The published work submitted by a candidate may range over a number of different topics, but these should normally relate in a coherent way to a body of knowledge within a field recognized by the college. The amount of work submitted should be substantial, and concluded over a significant period of time having regard to the contribution to the discipline.

c) Candidates may not submit work previously submitted as a thesis for the Doctoral degree.

d) The college academic affairs board may appoint an appropriately qualified academic who is a member of the University staff, to advise the candidate on how to present the material for submission.

**DS6 Format of thesis**

a) Every thesis submitted shall include a declaration to the satisfaction of the Senate stating that it has not previously been submitted for a degree in this or any other university.

b) Every thesis submitted shall be in such format as prescribed by the Senate and the rules of the relevant college; provided that each thesis shall include an introduction in English linking the published work and explaining its significance and coherence.

c) Every thesis submitted shall include a signed statement indicating the level of contribution to each publication and role of the candidate as sole author, senior/principal author or co-author.

d) A thesis may comprise of published books and monographs, chapters in books, edited works, refereed conference proceedings, papers in peer-reviewed journals, accompanied by a comprehensive concluding integrative chapter.

**DS7 Assessment**

a) The Senate shall appoint for each thesis five persons to act as examiners, at least three of whom shall be responsible for external assessment.
b) Except with the permission of the Senate, at least two of the external examiners shall be based external to the country.

Rules for Certificates and Diplomas

Note: The following Rules are additional to the preceding General Rules GR1 – GR33.

CD1 Applicability

The following Rules, CD2 – CD3 inclusive, shall be applicable to every candidate for a Certificate and/or Diploma.

CD2 Admission

Applicants may be registered for a Certificate or Diploma provided that they have met the minimum criteria for admission to study as prescribed by the college.

CD3 Award of Certificate or Diploma with distinction

A qualification of Certificate or Diploma may be conferred with distinction in accordance with the rules of the relevant College, provided that, subject to exceptions as approved by the College Academic Affairs Board, the student has:

(i) obtained a credit-weighted average of at least 75% over all modules required for the qualification; and
(ii) successfully completed all modules in the curriculum without recourse to supplementary examinations; and
(iii) completed the certificate or diploma in the prescribed minimum time.
COLLEGE OF HEALTH SCIENCES ACADEMIC RULES

Note:

- The General Academic Rules of the University shall, where applicable, also apply to the qualifications offered in the College.

- Students are advised that not all modules listed in this handbook will not necessarily be offered and that the University reserves the right to withdraw modules at short notice if and when necessary.

- All first entry undergraduate students from 2014 must pass a module in isiZulu in order to be degree complete; or obtain exemption from the module under rule GR8a.

- Students are advised that all students in all the College of Health Sciences programmes are required to undergo clinical training / placements at training sites located at areas outside of Durban (of which some may be in rural KwaZulu-Natal) as part of their mandatory HPCSA/ SAPC clinical training. Such placements are compulsory, non-negotiable, maybe on a rotational and/or longitudinal basis and may extend up to a year. Whilst the University/College of Health Sciences will provide clinical training in collaboration with the KZN Department of Health, students are responsible for the basic costs of living, as applicable.

CHS 1 Changes in Rules

The College may revise or add to its rules from time to time, and any such alteration or addition shall become binding upon the date of publication or upon such date as may be specified by the College, provided that no change in rules shall be interpreted so as to operate retrospectively to the prejudice of any currently registered student.

CHS 2 Professional Registration

Where a Statutory body (e.g. the Health Professions Council of South Africa), requires the professional registration of students in a programme, then the continued registration of the student in the programme (and the University) shall be a condition of such registration with the Statutory Body.

CHS 3 Statutory Body Requirements

a) Statutory Bodies governing qualifications and programmes offered in the College may have stipulated learning activity requirements (e.g. a minimum number of hours of clinical, experiential, fieldwork and/or service learning) that must be achieved prior to graduation.

b) If necessary, such activities may need to be undertaken after normal working hours, over weekends, public holidays and during University vacations.
CHS 4 Compulsory Hepatitis B Vaccination
a) All students registered in the College for the first time (or in a new programme) shall provide proof of successful vaccination against Hepatitis B by the end of their first year.
b) There shall be no further registration without such proof.

CHS 5 Laboratory Safety
a) All students using laboratory facilities in the college are required to comply with the health and safety policies and procedures as specified for/in each laboratory at all times.
b) Failure to comply with a) above, will result in the student being denied access to the laboratory for that session.

CHS 6 Clinical Placements for Students in the College of Health Sciences
Students shall be required to undergo clinical training/experiential learning in a multitude of diverse clinical/practical settings/training sites as determined by the Dean & HOS, assisted by the discipline, as part of their mandatory HPCSA/SAPC clinical training/experiential learning. Such placements are compulsory, non-negotiable and may be on a rotational and/or longitudinal basis.

CHS 7 Registration and Progression
a) No student shall be allowed to register for modules where known timetable clashes exist, save in exceptional circumstances and with the express permission of the School. If a timetable clash is identified after registration, the student will have to deregister the “higher level” module in favour of the “lower level” module.
b) Students who repeat module(s) must attend all components of the module(s).

CHS 8 Readmission Following Suspension of Registration
A student who for two semesters or more has not undertaken clinical, experiential, fieldwork and/or service learning, and is not a postgraduate, shall be required to pass a test, or otherwise produce evidence of sustained clinical competence in the module, in order to be readmitted to the programme.

CHS 9 Impaired Practitioner
A student who, after due consideration and assessment by an ad hoc committee (appointed by the College or School or Statutory/Professional Body) is deemed impaired and unable on inter alia psychiatric grounds or grounds of substance abuse to continue his/her studies, shall have his/her registration suspended or be refused readmission to the programme.

CHS 10 Eligibility for Postgraduate Qualifications
Applicants shall be subject to selection based on the appropriateness of their academic background, the strength of their previous academic record, the availability of University resources and University obligations in terms of University or Government policies.

CHS 11 Eligibility for Postgraduate Diplomas in the College
a) A candidate is eligible to apply for selection to register for the qualification of a Postgraduate Diploma in the College provided that he or she holds
   (i) a Bachelor of Medical Science, or
   (ii) a Bachelor of Science, or
(iii) an MBChB, or
(iv) a Bachelors qualification in one of the health professions from the University

b) Applicants shall be subject to selection based on the appropriateness of their academic background, the strength of their previous academic record, the availability of University resources and University obligations in terms of University or Government policies.

**CHS 12 Postgraduate Diploma module repeats and examinations**

a) With the permission of the School, candidates who have failed a module shall be permitted to repeat such module or, if the module in question is not a core module, to select an alternative module to complete the Postgraduate Diploma.

b) A candidate who repeats a module shall repeat all parts of the module, including group work and assignments.

c) No module shall be repeated more than once.

**CHS 13 Dissertation by Publication for Masters by Coursework**

In addition to rule CR13:

a) A dissertation may comprise one or more papers of which the student is the prime author, published or in press or in manuscripts written in a paper format, in peer-reviewed journals on the SAPSE/ISI list of journals, or in manuscripts written in paper format accompanied by introductory and concluding integrative material, one of which reports original research.

b) Reviews and other types of papers in addition to original research paper/s may be included, provided they are on the same topic.

**CHS 14 Dissertation by Publication for Masters by Research**

a) A dissertation may comprise one or more papers of which the student is the prime author, published or in press in peer-reviewed journals on the SAPSE/ISI list of journals or in manuscripts written in paper format, accompanied by introductory and concluding integrative material, one of which reports original research.

b) Reviews and other types of papers in addition to original research paper/s may be included, provided they are on the same topic.

**CHS 15 Doctoral Degree by Research**

a) A thesis may comprise three or more papers of which the student is the prime author, published or in press or in manuscripts written in a paper format, in peer-reviewed journals on the SAPSE/ISI list of journals, or in manuscripts written in paper format accompanied by introductory and concluding integrative material, two of which reports original research.

b) Reviews and other types of papers in addition to original research paper/s may be included, provided they are on the same topic.

The following qualifications are offered in the College:

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<td>Bachelor of Speech Therapy</td>
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<td>Bachelor of Dental Therapy</td>
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<td>Bachelor of Medical Science (Anatomy)</td>
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<td>Bachelor of Medical Science (Physiology)</td>
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<td>Master of Medicine (MMed) with a range of specializations</td>
<td>School of Lab Meds and Medical Sciences School of Nursing and Public Health School of Clinical Medicine</td>
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<tr>
<td>Master of Medicine (Public Health Medicine)</td>
<td>School of Nursing and Public Health</td>
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</table>
Bachelors Degrees

Bachelor of Audiology

CHS – AUD01 Curriculum for the Bachelor of Audiology

The curriculum for the qualification Bachelor of Audiology, comprising modules with a total credit point value of 512 credit points as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.
Health Sciences

CHS – AUDO2 Progression requirements
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

CHS – AUDO3 Attendance
Attendance to all practical and clinical modules are compulsory.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
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</table>

CHS – AUDO4 Statutory Body Requirement
No student shall be allowed to graduate unless 400 hours of clinical work has been completed.

Curriculum for Bachelor of Audiology – (B-AUDI)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
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<tbody>
<tr>
<td>ANAT115</td>
<td>Introduction to Anatomy &amp; Neuroanatomy</td>
<td>16</td>
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<tr>
<td>CPSL143</td>
<td>Introduction to Human Communication Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPSL142</td>
<td>Clinical Phonetics and Linguistics</td>
<td>16</td>
<td>1</td>
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<tr>
<td>HPHS111</td>
<td>Basic Human Physiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPAU141</td>
<td>Introduction to Audiology and Assessment</td>
<td>16</td>
<td>2</td>
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<tr>
<td>CPSL141</td>
<td>Introduction to Developmental Communication Disorders</td>
<td>16</td>
<td>2</td>
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<tr>
<td>PSYC102</td>
<td>Introduction to Psychology B</td>
<td>16</td>
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</table>

Choose ONE of the following isiZulu Modules:

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
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<tbody>
<tr>
<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
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<td>ZULM105</td>
<td>Academic Writing</td>
<td>16</td>
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ZULN101 (non-Zulu speaking students) ZULM105 (Zulu speaking students)

<table>
<thead>
<tr>
<th>Total credits: Level 1</th>
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<tbody>
<tr>
<td>CPAU251</td>
<td>16</td>
</tr>
<tr>
<td>CPSL241</td>
<td>16</td>
</tr>
<tr>
<td>CPAU244</td>
<td>16</td>
</tr>
<tr>
<td>CPSL251</td>
<td>16</td>
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<tr>
<td>ANAT119</td>
<td>16</td>
</tr>
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<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
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<tr>
<td>CPAU243</td>
<td>Augmentative and Alternative Communication and Deaf Culture</td>
</tr>
<tr>
<td>BHME222</td>
<td>Psychology For Health Sciences</td>
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<tr>
<td>HLSC116</td>
<td>Community Studies</td>
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<td><strong>Total credits: Level 2</strong></td>
</tr>
<tr>
<td>CPAU341</td>
<td>Rehabilitation Technology</td>
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<tr>
<td>CPAU351</td>
<td>Aural Rehabilitation</td>
</tr>
<tr>
<td>CPAU345</td>
<td>Clinical Practice: Paediatric Assessment</td>
</tr>
<tr>
<td>HLSC241</td>
<td>Clinical management of communication related disorders</td>
</tr>
<tr>
<td>CPAU344</td>
<td>Auditory Processing Disorders</td>
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<tr>
<td>CPAU352</td>
<td>Electrophysiology : Early and Late Responses</td>
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<tr>
<td>CPAU322</td>
<td>Clinical Practice: Rehabilitation Technology</td>
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<tr>
<td>HLSC340</td>
<td>Applied research methodology</td>
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<td><strong>Total credits: Level 3</strong></td>
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<tr>
<td>CPAU444</td>
<td>Vestibular assessment and management</td>
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<tr>
<td>CPAU447</td>
<td>Occupational Audiology</td>
</tr>
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<td>CPAU461</td>
<td>Clinical Practice: General and Advanced audiological assessment: 1</td>
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<td>CPAU462</td>
<td>Clinical Practice: General and Advanced audiological assessment: 2</td>
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<tr>
<td>CPAU418</td>
<td>Clinical Practice: Aural rehabilitation</td>
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<td>CPAU400</td>
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<td><strong>Total credits: Level 3</strong></td>
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<td><strong>Total credits for the degree</strong></td>
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</table>

**Bachelor of Speech-Language Therapy**

**CHS - SPLT 1 Curriculum for the Bachelor of Speech-Language Therapy**

The curriculum for the qualification Bachelor of Speech-Language Therapy, comprising modules with a total credit point value of 512 credit points as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.

**CHS - SPLT 2 Progression requirements**

To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

**CHS – SPLT3 Attendance**

Attendance to all practical and clinical modules are compulsory.
<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
</tr>
</thead>
<tbody>
<tr>
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<td>56</td>
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<td>8</td>
<td>288</td>
<td>384</td>
<td>512</td>
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</tbody>
</table>

**CHS – SPLP4 Statutory Body Requirements**

No student shall be allowed to graduate unless 400 hours of clinical work has been completed.

**Curriculum for Bachelor of Speech-Language Therapy (B-SLT)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Level 1</td>
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<tr>
<td>ANAT115</td>
<td>Introduction to Anatomy &amp; Neuroanatomy</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPSL143</td>
<td>Introduction to Human Communication Science</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPSL142</td>
<td>Clinical Phonetics &amp; Linguistics</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT119</td>
<td>Head &amp; Neck</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>CPAU142</td>
<td>Audiological Principles and Practices for Speech Language Therapists</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>CPSL141</td>
<td>Introduction to Development Communication Disorders</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PSYC102</td>
<td>Introduction to Psychology B</td>
<td>16</td>
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</tr>
<tr>
<td></td>
<td><strong>Choose ONE of the following isiZulu Modules:</strong></td>
<td></td>
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</tr>
<tr>
<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
<td>16</td>
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<td>ZULM105</td>
<td>Academic Writing</td>
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<tr>
<td></td>
<td><strong>ZULN101 (non-Zulu speaking students) ZULM105 (Zulu speaking students)</strong></td>
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**Total credits: level 1** 128

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<td>HLSC241</td>
<td>Clinical management of communication related disorders</td>
<td>16</td>
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<tr>
<td>CPSL241</td>
<td>Developmental Language Disorders</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPAU243</td>
<td>Alternative Communication and Deaf Culture</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPAU242</td>
<td>Clinical Practice: Audiological Assessment For Speech Language Therapists</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CPSL245</td>
<td>Speech Disorders: Cleft, Voice And Fluency</td>
<td>16</td>
<td>2</td>
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<tr>
<td>HLSC116</td>
<td>Community Studies</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>BHME222</td>
<td>Health And Illness Behaviour</td>
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<td>2</td>
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<tr>
<td>CPSL246</td>
<td>Clinical Practice: Speech Sound System Disorders</td>
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**Total credits: level 2** 128

<table>
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<tr>
<td>CPAU343</td>
<td>Aural Rehabilitation for Speech Language Therapists</td>
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<td>Course Title</td>
<td>Credits</td>
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<td>HLSC340</td>
<td>Applied Research Methods for Health Sciences</td>
<td>16</td>
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<tr>
<td>CPSL344</td>
<td>Developmental Communication Disorders A</td>
<td>16</td>
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<td>CPSL346</td>
<td>Developmental Communication Disorders B</td>
<td>16</td>
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<td>CPSL341</td>
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<td>CPSL347</td>
<td>Acquired Communication Disorders &amp; Dysphagia B</td>
<td>16</td>
<td>2</td>
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<tr>
<td>CPSL349</td>
<td>Clinical Practice: Developmental Language Disorders</td>
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<td>1 &amp; 2</td>
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<tr>
<td>CPSL354</td>
<td>Clinical Practice: Speech Disorders voice and fluency</td>
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<td>1 &amp; 2</td>
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**Total credits: level 3** 136

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<tr>
<th>Level 4</th>
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<th>Credits</th>
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<td>CPSL441</td>
<td>Special Topics</td>
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<td>CPSL457</td>
<td>Clinical Practice: Initial Assessment</td>
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<tr>
<td>CPSL444</td>
<td>Clinical Practice: Community Based Rehabilitation</td>
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<td>1 &amp; 2</td>
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<tr>
<td>CPSL443</td>
<td>Clinical Practice: Developmental Communication Disorders A</td>
<td>16</td>
<td>1 &amp; 2</td>
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<tr>
<td>CPSL445</td>
<td>Clinical Practice: Developmental Communication Disorders B</td>
<td>16</td>
<td>1 &amp; 2</td>
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<td>CPSL447</td>
<td>Research Practice</td>
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**Total credits at level 4** 128

**Total credits for the degree** 512

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**Bachelor of Dental Therapy**

**CHS - DENT1 First-Aid Certificate**

Every student shall present a certificate in First Aid from an accredited provider before being permitted to register for the third level of study.

**CHS - DENT2 Curriculum for the Bachelor of Dental Therapy**

The curriculum for the qualification Bachelor of Dental Therapy, comprising modules with a total credit point value of 384 credit points as approved by the Senate shall extend over six semesters of full-time study. All modules in the curriculum shall be compulsory.

**CHS – DENT3 Attendance**

Attendance to all practical and clinical modules are compulsory.

**CHS – DENT4 Progression requirements**

To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
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<tr>
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<td>ANAT105</td>
<td>Introduction to Anatomy and Neuroanatomy</td>
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<tr>
<td>DENT141</td>
<td>Oral Biology</td>
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<td>1</td>
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<td>HPHS111</td>
<td>General Basic Physiology</td>
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<td>ANAT106</td>
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<td>HLSC116</td>
<td>Community Studies</td>
<td>16</td>
<td>2</td>
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<tr>
<td>DENT142</td>
<td>Foundations for Clinical Practice</td>
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<td>2</td>
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<tr>
<td>DENT110</td>
<td>Academic Skills and Clinical Practice</td>
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Choose **ONE** of the following isiZulu Modules:

- ZULN101 Basic isiZulu languages Studies A  
  - Credit: 16  
  - Semester: 1
- ZULM105 Academic Writing  
  - Credit: 16  
  - Semester: 1

**ZULN101 (non-Zulu speaking students)**  
**ZULM105 (Zulu speaking students)**

| Total Credits For Level 1 | 128 |

**LEVEL 2**

<table>
<thead>
<tr>
<th>Code</th>
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<td>DENT246</td>
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<td>DENT243</td>
<td>Basic Dental Clinical Sciences</td>
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<td>DENT277</td>
<td>General Medicine &amp; Special Patients</td>
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<tr>
<td>DENT242</td>
<td>Preventive Dentistry and Radiography 1</td>
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<tr>
<td>DENT244</td>
<td>Restorative Dentistry and Dental Materials – Preclinical</td>
<td>16</td>
<td>2</td>
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<tr>
<td>DENT241</td>
<td>Dental Public Health, Ethics &amp; Practice</td>
<td>16</td>
<td>2</td>
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<tr>
<td>DENT245</td>
<td>Oral Pathology, Oral Medicine</td>
<td>16</td>
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<td>DENT252</td>
<td>Preventive Dentistry and Radiography 2</td>
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</table>

| Total credits for level 2 | 128 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
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<tr>
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<td>Minor Oral Surgery 1</td>
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<td>DENT353</td>
<td>Restorative Dentistry and Dental Materials 1</td>
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<td>DENT355</td>
<td>Integrated Clinical Dentistry 1</td>
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<td>DENT357</td>
<td>Diagnostic &amp; Medical Emergencies 1</td>
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<td>DENT352</td>
<td>Minor Oral Surgery 2</td>
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<tr>
<td>DENT354</td>
<td>Restorative Dentistry and Dental Materials 2</td>
<td>16</td>
<td>2</td>
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<tr>
<td>DENT356</td>
<td>Integrated Clinical Dentistry 2</td>
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<tr>
<td>DENT358</td>
<td>Diagnostic &amp; Medical Emergencies 2</td>
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</table>

| Total Credits Level 3 | 128 |

| Total Credits For Bachelor Of Dental Therapy | 384 |
Bachelor of Medical Science (Anatomy)

CHS-ANAT 1 Selection for the Bachelor of Medical Science (Anatomy)
Candidates are eligible to register for the qualification of Bachelor of Medical Science (Anatomy) provided they have
(a) an NSC with English, Life Orientation, Life Sciences, Mathematics and Physical Science at Level 4
(b) 30 points excluding Life Orientation.

CHS-ANAT 2 Curriculum and rules of combination of the Bachelor of Medical Science (Anatomy)
(a) The curriculum for the qualification of the Bachelor of Medical Sciences in Anatomy, comprising modules with a combined credit value of not less than 128 credits at each of Levels 1, 2 and 3, and a total for the entire programme of 384 credits shall extend over 6 semesters of full time study
(b) The curriculum of every student shall include at least 192 credits in Anatomy of which 16 credits shall be at Level 1, 80 credits shall be at Level 2 and 96 credits at Level 3. (c) Elective modules at Level 2 and Level 3 shall be chosen, subject to the approval of the School Board, from subject areas that are considered by the School Board as being suitable for a programme in Anatomy. Human Physiology, Microbiology or Medical Microbiology, Biochemistry or Medical Biochemistry, Chemistry, Haematology, Medical Virology, Chemistry and Biology shall normally be regarded as suitable subject areas.

CHS-ANAT 3 Progression rule: Bachelor of Medical Science in Anatomy
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
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<tbody>
<tr>
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<td>7</td>
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<td>8</td>
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<td>10</td>
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</tbody>
</table>

Curriculum for Bachelor of Medical Science in Anatomy (B-MDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM110</td>
<td>General Principles of Chemistry</td>
<td>16</td>
<td>1</td>
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</table>
Health Sciences

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Credits</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL101</td>
<td>Smaller side of life</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHYS131</td>
<td>Intro Physics for Life Sciences &amp; Agriculture</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MATH150</td>
<td>Mathematics and Statistics for Natural Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>CHEM120</td>
<td>Chemical Reactivity</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ANAT 110</td>
<td>Ethics and Law for Anatomical Sciences</td>
<td>16</td>
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</tr>
</tbody>
</table>

Choose **ONE** of the following modules:

- **BIOL102**: Life on Earth
  - Credits: 16
  - Level: 2
- **BIMI120**: Introductory Microbiology and Biochemistry
  - Credits: 16
  - Level: 2
- **HPHS1H2**: Human Body form and function
  - Credits: 16
  - Level: 2

Choose **ONE** of the following modules:

- **ZULN101**: Basic isiZulu languages Studies A
  - Credits: 16
  - Level: 2
- **ZULM105**: Academic Writing
  - Credits: 16
  - Level: 2

**ZULN101** (non Zulu speaking students) **ZULM105** (Zulu speaking students)

Total credits: level 1 **128**

**Level 2**

- **BIOC201**: Introduction to Biomolecules
  - Credits: 16
  - Level: 1
- **ANAT 201**: Introduction to Anatomy
  - Credits: 16
  - Level: 1
- **ANAT 202**: Neuroanatomy
  - Credits: 16
  - Level: 1
- **ANAT212**: Anatomy of the Head, Neck & Back
  - Credits: 32
  - Level: 2
- **ANAT203**: Cytology and Introduction to Histology
  - Credits: 16
  - Level: 2

*Elective module(s) at level 2 chosen by student subject to approval by School board. Modules can be chosen from HPHS, MICR, BIOL, BIOC or CHEM Level 2 modules*

Total credits: level 2 **128**

**Level 3**

- **ANAT 301**: Anatomy of the Trunk
  - Credits: 16
  - Level: 1
- **ANAT 302**: Embryology
  - Credits: 16
  - Level: 1
- **ANAT 303**: Comparative Skeletal Anatomy and Laboratory Techniques
  - Credits: 16
  - Level: 1
- **ANAT311**: Anatomy of the Upper & Lower Limbs
  - Credits: 32
  - Level: 2
- **ANAT 304**: Research Project
  - Credits: 16
  - Level: 1

*Elective module(s) at level 3 chosen by student subject to approval by School board. Modules can be chosen from HPHS, MICR, BIOL, BIOC or CHEM Level 3 modules*

Total credits: level 3 **128**

Total credits for degree **384**

---

**Bachelor of Medical Science (Physiology)**

**CHS-PHYS 1 Selection for the Bachelor of Medical Science (Physiology)**

Candidates are eligible to register for the qualification of Bachelor of Medical Science (Physiology) provided they have
(a) an NSC with English, Life Orientation, Life Sciences, Mathematics and Physical Science at Level 4
(b) 30 points excluding Life Orientation

CHS-PHYS 2 Curriculum and rules of combination of the Bachelor of Medical Science (Physiology)
(a) The curriculum for the qualification of the Bachelor of Medical Sciences in Physiology, comprising modules with a combined credit value of 128 credits at each of Levels 1,2 and 3, and a total for the entire programme of 384 credits as approved by school board, shall extend over 6 semesters of full time study
(b) The curriculum of every student shall include at least 192 credits in Physiology or cognitive discipline such as Biochemistry at Level 1 or above of which no less than 64 credits shall be at Level 3.
(c) Elective modules at Level 2 and Level 3 shall be chosen, subject to the approval of the school board, from subject areas that are considered by the school board as being suitable for a programme in Physiology. Human Anatomy, Microbiology or Medical Microbiology, Biochemistry or Medical Biochemistry, Haematology, Medical Virology, Chemistry and Biology shall be regarded as suitable subject areas.

CHS-PHYS 3 Progression rule: Bachelor of Medical Science in Physiology
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>48</td>
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<td>2</td>
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<td>7</td>
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Curriculum for Bachelor of Medical Science in Physiology (BMDSCP)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM110</td>
<td>General Principles of Chemistry</td>
<td>16</td>
<td>1</td>
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<tr>
<td>BIOL101</td>
<td>Smaller side of life</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHYS131</td>
<td>Intro Physics for Life Sciences &amp; Agriculture</td>
<td>16</td>
<td>1</td>
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<tr>
<td>MATH150</td>
<td>Mathematics and Statistics for Natural Sciences</td>
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<td>1</td>
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<tr>
<td>Module Code</td>
<td>Name</td>
<td>Credits</td>
<td>Level</td>
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<tr>
<td>CHEM120</td>
<td>Chemical Reactivity</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HPHS1H2</td>
<td>Human Body form and function</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>BIOL102</td>
<td>Life on Earth</td>
<td>16</td>
<td>2</td>
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<tr>
<td>BIMI 120</td>
<td>Introductory Microbiology and Biochemistry</td>
<td>16</td>
<td>2</td>
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<tr>
<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
<td>16</td>
<td>2</td>
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<tr>
<td>ZULM105</td>
<td>Academic Writing</td>
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</table>

**Choose ONE of the following modules**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Name</th>
<th>Credits</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ZULM105</td>
<td>Academic Writing</td>
<td>16</td>
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</tbody>
</table>

**Total credits: level 1** 128

**Level 2**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Name</th>
<th>Credits</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC201</td>
<td>Introduction to Biomolecules</td>
<td>16</td>
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</tr>
<tr>
<td>HPHS231</td>
<td>Foundations of Physiology</td>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>HPHS232</td>
<td>Cardiorespiratory and Renal Physiology</td>
<td>32</td>
<td>2</td>
</tr>
<tr>
<td>BIOC202</td>
<td>Bioenergetics and Integrated Metabolism</td>
<td>16</td>
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</tbody>
</table>

**Elective module(s) at level 2 chosen by student subject to approval by School board.**

Modules can be chosen from ANAT, MICR, BIOL or CHEM Level 2 modules

**Total credits: level 2** 128

**Level 3**

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Name</th>
<th>Credits</th>
<th>Level</th>
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<tr>
<td>HPHS331</td>
<td>Neuroendocrine Physiology</td>
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<tr>
<td>HMBC3MD</td>
<td>Metabolic diseases</td>
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<td>1</td>
</tr>
<tr>
<td>HAEM301</td>
<td>Haematology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HPHS322</td>
<td>Human Genetics and Applied Physiology</td>
<td>32</td>
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</tbody>
</table>

**Elective module(s) at level 3 chosen by student subject to approval by School board.**

Modules can be chosen from ANAT, MICR, BIOL, BIOC, MV13MV1, MMI3MM2 or CHEM Level 3 modules

**Total credits: level 3** 128

**Total credits for degree** 384

---

**Bachelor of Medicine and Bachelor of Surgery (MBChB)**

**CHS – MBChB 1 Admissions**

Candidates, in one of the following three categories, are eligible to apply for selection to register for the qualification MBChB provided that for

1. **National Senior certificate.** Applicants, who sit for the Grade 12 examinations during the year of the application, must achieve a minimum of 65% each in Mathematics, Physical Science, Life Sciences and English. (Applicants will be ranked in order of performance based on the arithmetic average of the best scores of 6 subjects that must include Mathematics, Physical Science, Life Science and English).
2. **Mature students.** Applicants must have completed the National Senior certificate (and have achieved at least 65% in Mathematics, Physical Science, Life Sciences and English) and have completed a degree course at a recognised university in South Africa.

3. **International student.** Applicants are governed by a SADC agreement to accept applicants from countries without a medical school. Such applicants are channelled via their respective ministries. Such students, however, must meet the minimum requirements for admission as stated in 1. and 2. above.

**Note:** The selection of students is based on a ranking system which considers academic merit and is in compliance with the racial quotas as approved by the College of Health Sciences

**CHS – MBChB 2 Curriculum**
If a student fails a module, the student shall not repeat the failed module in the same semester. Students will be required to take supplementary assessments in the component of the assessment which was failed. Components are defined as Written and Clinical.
In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

**CHS – MBChB 3 IsiZulu proficiency test**
All students in MBChB1 are required to pass the proficiency test in Year 1 in order to be exempted from/granted credit for the module CMED1ZU (IsiZulu for medical students). (notwithstanding the general rules for Bachelors Degrees BR9, and the general rules GR8 regarding exemptions from modules)

All candidates shall follow the relevant curriculum set out below:

**CHS – MBChB 4 Progression rule**
To maintain their good standing and to avoid either warning for slow academic progress or exclusion from the College, students must maintain minimum rates of progression through their qualifications. Minimum rates of progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number of Semesters Registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal Progression</th>
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### Bachelor of Medicine and Surgery (MBCHB6)

#### First Year Modules

<table>
<thead>
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<th>Module Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>CMED1BF</td>
<td>Basic and Foundation Science for Medicine</td>
<td>96</td>
<td>Year</td>
</tr>
<tr>
<td>CMED1PC</td>
<td>Becoming a Professional</td>
<td>32</td>
<td>Year</td>
</tr>
<tr>
<td>CMED1EN</td>
<td>English Literacy</td>
<td>8</td>
<td>Year</td>
</tr>
<tr>
<td>CMED1ZU</td>
<td>isiZulu</td>
<td>8</td>
<td>Year</td>
</tr>
<tr>
<td>CMEDICL</td>
<td>Computer Literacy</td>
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<td>Year</td>
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Total Credits for year 1: 152

#### Second Year Modules

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>CMED2HD</td>
<td>Community and evidence based practice I</td>
<td>16</td>
<td>Year</td>
</tr>
<tr>
<td>CMED2CR</td>
<td>Homeostasis</td>
<td>72</td>
<td>1</td>
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<tr>
<td>CMED2NG</td>
<td>Co-ordination, protection and control</td>
<td>72</td>
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Total Credits for year 2: 160

#### Third Year Modules

<table>
<thead>
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<th>Module Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>CMED3MN</td>
<td>Mental Health and Musculo-skeletal problems</td>
<td>64</td>
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<tr>
<td>CMED3RH</td>
<td>Reproductive Health, Blood and AI, Infectious Diseases</td>
<td>64</td>
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<tr>
<td>CMED3IC</td>
<td>Integrated Approach to Illness, Cardinal Symptoms of Disease</td>
<td>16</td>
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<tr>
<td>CMED3E2</td>
<td>Community and evidence based practice II: Introduction to Research and Evidence Based Practice</td>
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Total Credits for year 3: 160

#### Fourth Year Modules

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<td>CMED4IM</td>
<td>Integrated Medicine 1</td>
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<tr>
<td>CMED4EL</td>
<td>Community and Evidence-Based Practice III</td>
<td>16</td>
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<tr>
<td>CMED4PC</td>
<td>Integrated Primary Care 1</td>
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<td>1 + 2</td>
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<tr>
<td>CMED4CH</td>
<td>Child Health 1</td>
<td>24</td>
<td>1 + 2</td>
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<tr>
<td>CMED4IO</td>
<td>Integrated Obstetrics and Gynaecology 1</td>
<td>24</td>
<td>1 + 2</td>
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<tr>
<td>CMED4IA</td>
<td>Integrated Acute Care</td>
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<tr>
<td>CMED4II</td>
<td>Introductory Integrated Medicine 1</td>
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Total Credits for year 4: 160
Fifth Year Modules

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<td>CMED5IM</td>
<td>Integrated Medicine 2</td>
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<td>CMED5OG</td>
<td>Integrated Obstetrics and Gynaecology 2</td>
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<td>1 + 2</td>
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<tr>
<td>CMED5PC</td>
<td>Integrated Primary Care 2</td>
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<td>1 + 2</td>
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<td>CMED5CH</td>
<td>Child Health 2</td>
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<td>1 + 2</td>
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<td>CMED5MH</td>
<td>Mental Health 1</td>
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<td>1 + 2</td>
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<td>CMED5SP</td>
<td>Integrated Surgical Practice 1</td>
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Sixth Year Modules

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<td>CMED6IM</td>
<td>Integrated Medicine 3</td>
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<tr>
<td>CMED6PC</td>
<td>Integrated Primary Care 3</td>
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<td>1 + 2</td>
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<td>CMED6CH</td>
<td>Child Health 3</td>
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<td>1 + 2</td>
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<td>CMED6MH</td>
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<td>CMED6IS</td>
<td>Integrated Surgical Practice 2</td>
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<td><strong>Total Credits for year 6</strong></td>
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</tr>
</tbody>
</table>

Bachelor of Nursing

**CHS - NURS 1 Eligibility; Bachelor of Nursing**

Candidates are eligible to apply for selection to register for the qualification Bachelor of Nursing provided they have

a) An NSC with English (HL/FAL) and Life Orientation 4 and Mathematics/Maths Literacy 3
b) 30 points excluding Life Orientation.

**CHS - NURS 2 Professional Indemnity**

For all work-based or clinical learning, students are required to provide proof of professional indemnity before being allowed to enter the work-based or clinical learning area.

**CHS - NURS 3 Exam Subminimum**

A subminimum of 50% shall apply to all practical examinations which are part of nursing modules.

**CHS - NURS 4 Statutory Body Requirements**

No student shall be allowed to graduate unless the minimum hours of clinical work for the programme, as prescribed by the South African Nursing Council, have been completed.

**CHS - NURS 5 Curriculum for the Bachelor of Nursing**

a) The curriculum for the qualification Bachelor of Nursing as approved by the CAAB shall extend over eight semesters or four years of full-time study.

b) Students shall obtain at least 512 credits (including all prescribed modules) to qualify with a BN degree.
**CHS - NURS 6 IsiZulu Language Requirement**

Students whose home language is not from the Nguni group of languages shall be required to complete one 16 credit module of isiZulu, as one of the non-nursing electives.

**CHS - NURS 7 Progression**

To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
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**Bachelor of Nursing (B-NUR)**

**Module code** | **Name of Module** | **Credits** | **Semester**
--- | --- | --- | ---
NURS100 | Fundamental Nursing | 32 | Year
ANAT113 | Human Anatomy | 32 | Year
HPHS1NU | Introductory Physiology for nursing | 16 | 2
CHEM100 | Special Science | 16 | 1

| Elective 1 (Soc Sc) | 16 |
| Elective 2 (Soc Sc) | 16 |
| Elective 3 (Soc Sc)* | 16 |

**Level 2**

**Module code** | **Name of Module** | **Credits** | **Semester**
--- | --- | --- | ---
NURS230 | Preventive & Promotive Health | 32 | Year
HPHS2NU | Physiology themes for nursing | 16 | 1

| Elective 3 (Soc Sc)* | 16 |
| Elective 4 (Soc Sc) | 16 |
| Elective 5 (Soc Sc) | 16 |
| Elective 6 (Soc Sc) | 16 |
| Elective 7 (Soc Sc) level 200a | 16 |
Bachelor of Nursing (Advanced Practice) (Pipeline students only)

CHS - NURS 6 Eligibility: Bachelor of Nursing (Advanced Practice)

Candidates are eligible to apply for selection to register for the qualification Bachelor of Nursing (Advanced Practice) provided they are;

a) nurses who are registered or enrolled with the South African Nursing Council (SANC) and who have had relevant post-registration experience if appropriate; or

b) nurses who have obtained a nursing qualification from another country and who are not registered or are not register-able by the SANC, but who, in the opinion of the Senate, hold qualifications equivalent to those demanded from general nurses in the Republic of South Africa, and

c) have met the University’s requirements for undergraduate study, and

d) have qualified to enter the stream of their choice as spelt out below.

The additional requirements for entering the individual streams are:

*Advanced Clinical programmes:*

The applicant must have completed a minimum of 6 (six) months of clinical experience in the selected field of study.

*Non-clinical Programmes:*

The applicant must be currently working or have previously worked for a minimum period of one year.

*Comprehensive Clinical Programmes:*

The applicant must have registration or a qualification as a nurse or midwife.
a) The curriculum for the qualification of Bachelor of Nursing (Advanced Practice), comprising modules with a total credit value of 384 credits as approved by the School, shall extend over six semesters of full-time study or not less than ten semesters of part-time study.

b) Students shall choose one of eight specialist streams and follow the approved curriculum for that stream. The specialisation modules, which are not common to all eight streams at any Level, shall total at least 64 credits in every specialised stream. They must all be passed in order to obtain a qualification in that stream.

CHS - NURS 8 Progression

To maintain their good standing, and to avoid receipt of warning of slow academic progress and potential exclusion from the College, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

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Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline Students Only)

**Stream 1: Nursing Education (BN-ADP)**

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### Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)

#### Stream 3: Comprehensive Practice

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### Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)

#### Stream 4: Advanced Mental Health

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### Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)

**Stream 5: Oncology and Palliative Care**

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**Stream 6: Advanced Midwifery & Neonatal Intensive-Care Nursing**

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### Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)  
**Stream 7: Critical Care and Trauma**

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### Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)

**Stream 8: Primary Health Care Nursing**

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Total credits: level 3 128

Total credits for the degree 384

Curriculum for Bachelor of Nursing (Advanced Practice) (Pipeline)  
Specialization Choice Stream

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Total credits: level 1 128

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Level 3

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Total credits: Level 3 128

Total overall credits for BNAP degree 384
Bachelor of Occupational Therapy

CHS - OCTH 1 Curriculum for the Bachelor of Occupational Therapy
The curriculum for the qualification Bachelor of Occupational Therapy, comprising modules with a total credit point value of 520 credit points as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.

CHS - OCTH 2 Statutory Body Requirements (HPCSA)
No student shall be allowed to graduate unless 1000 hours of clinical work has been completed.

CHS – OCTH 3 Attendance
Attendance to all practical and clinical modules are compulsory.

CHS - OCTH 4 Progression requirements
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
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Curriculum for Bachelor of Occupational Therapy (BOCTH)

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<td>OCTH141 OT: Fundamentals 1</td>
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<td>PYSC101 Introduction to Psychology A</td>
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<td>ANAT102 Anatomy of the Head, Neck &amp; Back</td>
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<td>ANAT109 Anatomy of the Upper &amp; Lower Limbs</td>
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choose ONE of the following isiZulu Modules:

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<td>OT Fundamentals 2</td>
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<td>Psychosocial Theory and Fieldwork 2</td>
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<td>Areas of Occupation</td>
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<td>OT: Physical Theory &amp; Fieldwork 4</td>
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**Bachelor of Optometry**

**CHS - OPTM 1 Curriculum for the Bachelor of Optometry**

The curriculum for the qualification Bachelor of Optometry, comprising modules with a total credit point value of 512 credit points as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.

**CHS - OPTM 2 Clinical Experience**

a) All final year students shall be required to produce verified records (by approved clinical supervisors) of their personal performance of a minimum of 130 supervised optometric
examinations of patients (including 10 patients with ocular pathology) in the internal and external clinics, before the end of the academic year. This will include patients seen in the Level 3 internal and external clinics.

b) All final year students will be required to produce verified records of a minimum number of patients seen in each of the specialist clinics as follows: Binocular Vision (10), Contact Lenses (15); 6 RGP’s and 9 Softs, Low Vision (10) and Paediatric Vision (10).

c) All final year students will be required to produce verified records of a minimum of 500 clinical hours completed during the duration of the degree programme.

CHS – OPTM 3 Attendance
Attendance to all practical and clinical modules are compulsory.

CHS - OPTM 4 Progression requirements
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

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Curriculum for Bachelor of Optometry (BOPT)

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<td>MATH150</td>
<td>Mathematics for Natural Sciences</td>
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<td>PHYS131</td>
<td>Intro Physics for Life Sciences &amp; Agriculture</td>
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<td>ANAT103</td>
<td>Introduction to Anatomy &amp; Neuroanatomy</td>
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**ZULN101 (non-Zulu speaking students) ZULM105 (Zulu speaking students)**

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<td>OPTM351 General Clinic I / grand rounds</td>
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<td>OPTM442 Research Methods &amp; Publication for Optometry</td>
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<td><strong>Total credits: Level 4</strong></td>
<td></td>
<td><strong>144</strong></td>
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</table>

**Complete degree**                        |                                      | **536** |

**Bachelor of Pharmacy**

**CHS - PHRM 1 Curriculum for the Bachelor of Pharmacy**

The curriculum for the qualification Bachelor of Pharmacy, comprising modules with a total credit point value of 512 credits as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.

**CHS - PHRM 2 Progression requirements**

To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.
CHS – PHRM 3 Attendance
Attendance to all practical and clinical modules are compulsory.

CHS – PHRM 4 Statutory Body Requirements
A student is required to have completed 400 hours of experiential training before being awarded the degree.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
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<tr>
<td>1</td>
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<td>48</td>
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<td>8</td>
<td>288</td>
<td>384</td>
<td>512</td>
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Curriculum for Bachelor of Pharmacy (B-PHAM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL103</td>
<td>Introductory Biology for Health Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MATH150</td>
<td>Mathematics for Natural Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHRM141</td>
<td>Pharmaceutical Chemistry 1</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHYS131</td>
<td>Intro Physics for Life Sciences &amp; Agriculture</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHRM102</td>
<td>Introduction to Pharmacy</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>BHME222</td>
<td>Health and Illness Behaviour</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHRM142</td>
<td>Pharmaceutical Chemistry 2</td>
<td>16</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose ONE of the following isiZulu Modules:

- ZULN101 Basic isiZulu languages Studies A 16 2
- ZULM105 Academic Writing 16 2

**ZULN101 (non-Zulu speaking students) ZULM105 (Zulu speaking students)**

| Total Credits for level 1 | 128 |

Level 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPHS221</td>
<td>Homeostasis</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT101</td>
<td>Introduction to Anatomy and Neuroanatomy</td>
<td>16</td>
<td>1</td>
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<tr>
<td>PHRM245</td>
<td>Physico-chemical Principles for Medicines</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHRM251</td>
<td>Pharmaceutical Chemistry 3</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HPHS222</td>
<td>Integration and Communication</td>
<td>16</td>
<td>2</td>
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<tr>
<td>PHRM252</td>
<td>Introduction to Pathology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHRM242</td>
<td>Design and Manufacturing of Medicines.</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHRM246</td>
<td>Introduction to Biochemistry and Pharmacology</td>
<td>16</td>
<td>2</td>
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</table>

| Total Credits for level 2 | 128 |
Bachelor of Physiotherapy

CHS - PHTH 1 Curriculum for the Bachelor of Physiotherapy
The curriculum for the qualification Bachelor of Physiotherapy, comprising modules with a total credit point value of 512 credits as approved by the Senate, shall extend over eight semesters of full-time study. All modules in the curriculum shall be compulsory.

CHS - PHTH 2 Statutory Body Requirements
A student is required to have completed at least 1000 hours of recorded service learning in the treatment of patients before being awarded the degree.

CHS – PHTH 3 Attendance
Attendance to all practical and clinical modules are compulsory.

CHS - PHTH 4 Progression requirements
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>“At Risk” threshold (75% of Maximum)</th>
<th>Normal progression</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>36</td>
<td>48</td>
<td>64</td>
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</tbody>
</table>
## Curriculum for Bachelor of Physiotherapy (B-PHYS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL103</td>
<td>Introductory Biology for Health Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PSYC101</td>
<td>Introduction to Psychology A</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHYS131</td>
<td>Physics for Life Sciences 1</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT101</td>
<td>Introduction to anatomy and Neuroanatomy</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT109</td>
<td>Anatomy of the upper and lower limbs</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHYS132</td>
<td>Physics for Life Sciences 2</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PSYC102</td>
<td>Introduction to Psychology B</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ZULM105</td>
<td>Academic Writing</td>
<td>16</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose ONE of the following isiZulu Modules:

ZULN101 (non-isiZulu speaking students) ZULM105 (isiZulu speaking students)

Total credits: level 1 128

<table>
<thead>
<tr>
<th>Level 2</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>HPHS221</td>
<td>Homeostasis</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT104</td>
<td>Anatomy of the Trunk and Embryology</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>PHTH145</td>
<td>Introduction to Physiotherapy Science</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHTH241</td>
<td>Kinesiology for Physiotherapy</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHTH243</td>
<td>Neurology and Community rehabilitation</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHTH142</td>
<td>Electrotherapy for Physiotherapy</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHTH242</td>
<td>Massage and Manipulation</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HPHS222</td>
<td>Integration and communication</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ANAT102</td>
<td>Anatomy of the Head, Neck and Back</td>
<td>8</td>
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</table>

Total credits: level 2 128

<table>
<thead>
<tr>
<th>Level 3</th>
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</thead>
<tbody>
<tr>
<td>HLSC311</td>
<td>Clinical Sciences 1</td>
<td>16</td>
<td>1</td>
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<tr>
<td>PTHH341</td>
<td>Principles of Physiotherapy Practice</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PTHH342</td>
<td>Neuromusculoskeletal Physiotherapy</td>
<td>16</td>
<td>1</td>
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<tr>
<td>HLSC340</td>
<td>Applied Research Methods</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HLSC332</td>
<td>Clinical Sciences 2</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PTHH343</td>
<td>Physiotherapy Clinical Practice (Cardiopulmonary &amp; Orthopaedic Conditions)</td>
<td>24</td>
<td>Year</td>
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</tbody>
</table>
Bachelor of Sport Science

CHS - SPSC 1 Curriculum for the Bachelor of Sport Science
The curriculum for the qualification Bachelor of Sport Science, comprising modules with a total credit point value of 384 credits as approved by the Senate, shall extend over six semesters of full-time study.

CHS - SPSC 2 Progression requirements
To maintain their good standing, and to avoid either warning for slow academic progress or exclusion from the University, students must maintain minimum rates of progression through their qualifications. Minimum rates of acceptable progression for this qualification are set out below.

CHS – SPSC 3 Attendance
Attendance to all practical modules are compulsory.

<table>
<thead>
<tr>
<th>Number Semesters registered</th>
<th>Min. Progression requirements</th>
<th>&quot;At Risk&quot; threshold (75% of Maximum)</th>
<th>Normal progression</th>
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<td>4</td>
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<td>256</td>
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<td>5</td>
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<td>240</td>
<td>320</td>
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<tr>
<td>6</td>
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<td>384</td>
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Curriculum for Bachelor of Sport Science(B-SPS)

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
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<td>SSBR101</td>
<td>History &amp; Management of Sport Science</td>
<td>16</td>
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<tr>
<td></td>
<td>SSBR113</td>
<td>Principles of Coaching &amp; Conditioning</td>
<td>16</td>
<td>1</td>
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<td></td>
<td>SSBR115</td>
<td>Practical Component level 1A</td>
<td>8</td>
<td>1</td>
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<tr>
<td></td>
<td>HPHS111</td>
<td>Basic Human Physiology</td>
<td>16</td>
<td>1</td>
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<tr>
<td></td>
<td>SSBR112</td>
<td>Elements of Human Anatomy</td>
<td>16</td>
<td>2</td>
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<tr>
<td></td>
<td>SSBR114</td>
<td>Kinesiology &amp; Health Education</td>
<td>16</td>
<td>2</td>
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<td></td>
<td>SSBR116</td>
<td>Practical Component 1B</td>
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<td>HPHS112</td>
<td>Physiological changes in Exercise and Training</td>
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<td>ZULN101</td>
<td>Basic isiZulu languages Studies A</td>
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<td>SSBR211</td>
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<td>SSBR216</td>
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<td>SSBR218</td>
<td>Ethics</td>
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<td>SSBR233</td>
<td>Applied Exercise Physiology</td>
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<td>PSYC102</td>
<td>Introduction to Psychology B</td>
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<td>Level 2</td>
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<td>SSBR213</td>
<td>Biomechanical Principles of Sport Science</td>
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<td>Level 3</td>
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<tr>
<td>SSBR234</td>
<td>Kinanthropometry and Nutrition</td>
<td>16</td>
<td>Level 3</td>
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<td>SSBR221</td>
<td>Recreation</td>
<td>16</td>
<td>Level 3</td>
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<td>HLSC116</td>
<td>Community Studies</td>
<td>16</td>
<td>Level 3</td>
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<td>SSBR311</td>
<td>Sport Psychology</td>
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<td>SSBR316</td>
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<td>HLSC340</td>
<td>Applied Research Methods</td>
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<td>Level 3</td>
<td></td>
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<tr>
<td>SSBR314</td>
<td>Rehabilitation Science</td>
<td>16</td>
<td>Level 3</td>
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<tr>
<td>SSBR319</td>
<td>Functional Anatomy and Sport Injuries</td>
<td>16</td>
<td>Level 3</td>
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<td>SSBR304</td>
<td>Exercise Biochemistry</td>
<td>16</td>
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<td>SSBR317</td>
<td>Recreation Services and Disabilities</td>
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<td>HLSC344</td>
<td>Clinical Sciences III</td>
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Total credits: level 1: 128
Total credits: level 2: 128
Total credits: level 3: 128
Total credits for the degree: 384
Postgraduate Diplomas

Postgraduate Diploma in Family Medicine (PGD-FM)

CHS-PGDFM 1 Eligibility
The minimum entry requirement is a recognised MBCHB degree and registration with the HPCSA as a medical practitioner. Candidates will be required to be practising in an ambulatory patient setting for the duration of the programme which is 2 years.

CHS-PGDFM 2 Curriculum
The curriculum for the diploma shall occupy a minimum of 4 semesters of part-time study with 4 compulsory modules. The curriculum for the diploma shall carry 128 credits in total.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAME6AA</td>
<td>Foundations of Family Medicine and Bioethics</td>
<td>32</td>
</tr>
<tr>
<td>FAME6AB</td>
<td>Maternal Child and Mental Health</td>
<td>32</td>
</tr>
<tr>
<td>FAME6AC</td>
<td>Acute and Chronic Disease</td>
<td>32</td>
</tr>
<tr>
<td>FAME6AD</td>
<td>Practice management and Communicable disease</td>
<td>32</td>
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</tbody>
</table>

CHS-PGDFM 3 Assessment
Each module shall be assessed separately.

Postgraduate Diploma in Clinical HIV/AIDS Management

CHS-PGDHiv 1 Eligibility
The general rule PR 2 headed “Criteria for admission to study” will apply.

CHS-PGDHiv 2 Curriculum
The curriculum for the Diploma shall occupy a minimum of 4 and a maximum of 6 semesters of part-time study with 8 compulsory modules. The curriculum for the Diploma shall carry 128 credits in total.

<table>
<thead>
<tr>
<th>Year One</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
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</tr>
<tr>
<td>PULM6IA</td>
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<tr>
<td>PULM6IP</td>
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<tr>
<td>PULM6VE</td>
</tr>
<tr>
<td>PULM6MW</td>
</tr>
</tbody>
</table>
CHS-PGDHiv 3 Duration of the Diploma
The curriculum for the Diploma shall occupy a minimum of 4 and a maximum of 6 semesters of part-time tuition.

CHS-PGDHiv 4 Assessment
Each module shall be assessed separately. Assessment shall take the form of written examinations with or without assignments. Written examinations shall take place at the end of the semester in which the module is taken.

Postgraduate Diploma in eHealth (PDGEH)

CHS – PGD eH1 Eligibility: Postgraduate Diploma in eHealth
A candidate is eligible to apply for selection to register for the qualification of a Postgraduate Diploma in eHealth who holds a Bachelors degree or a relevant National Diploma.

CHS – PGD eH2 Curriculum: Postgraduate Diploma in eHealth
The choice of electives will be made in consultation with the School. The curriculum for the PG Diploma shall carry 128 credits in total.

<table>
<thead>
<tr>
<th>Core Modules</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFT641</td>
<td>Introduction to Medical Information Systems</td>
<td>16</td>
</tr>
<tr>
<td>INFT62M</td>
<td>Telemedicine: Planning, management and ethics</td>
<td>16</td>
</tr>
<tr>
<td>INFT61C</td>
<td>Contemporary Topics in eHealth</td>
<td>16</td>
</tr>
<tr>
<td>INFT6M2</td>
<td>mHealth and home monitoring</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Modules</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFT6V1</td>
<td>Introduction to Electronic Medical Records</td>
<td>16</td>
</tr>
<tr>
<td>INFT61Y</td>
<td>Programming</td>
<td>16</td>
</tr>
<tr>
<td>INFT662</td>
<td>Public Health Management of Medical Information systems</td>
<td>16</td>
</tr>
<tr>
<td>INFT6S1</td>
<td>Telemedicine: Applied Skills</td>
<td>16</td>
</tr>
<tr>
<td>INFT61E</td>
<td>E-Health Project</td>
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</table>
Postgraduate Diploma in Occupational Health (D-OH)

CHS - PGD OCEH 1 Curriculum: Postgraduate Diploma in Occupational Health

The curriculum shall occupy a minimum of four and a maximum of six semesters of part-time study with a total of 128 credits.

Students are required to pursue the course of study as follows:
(a) Compulsory core modules of 112 credits and
(b) One elective module selected from the list below.

<table>
<thead>
<tr>
<th>Core Modules</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCEH600 Occupational and Environmental Health and Epidemiology</td>
<td>16</td>
</tr>
<tr>
<td>OCEH601 Principles of Toxicology</td>
<td>16</td>
</tr>
<tr>
<td>OCEH601 Introductory principles of occupational hygiene</td>
<td>16</td>
</tr>
<tr>
<td>OCEH601 Occupational Health Services Management and Psychosocial Issues</td>
<td>16</td>
</tr>
<tr>
<td>OCEH602 Case studies (Occupational Health)</td>
<td>16</td>
</tr>
<tr>
<td>OCEH603 Research project (Occupational Health)</td>
<td>32</td>
</tr>
</tbody>
</table>

Elective Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCEH604</td>
<td>Occupational and Environmental Diseases</td>
<td>16</td>
</tr>
<tr>
<td>OCEH605</td>
<td>Recognition and Evaluation of Occupational Hazards</td>
<td>16</td>
</tr>
</tbody>
</table>

Postgraduate Diploma in Public Health (PGD-PH)

CHS – PGD PH 1 Curriculum: Postgraduate Diploma in Public Health

Eligibility Criteria: A 3 year Bachelor’s degree in a health or related social science discipline and completion of a 1 year program or at least a minimum of 1 year relevant clinical experience in the health or social sector (post community service).

Duration of the Post Graduate Diploma shall be a minimum of four and a maximum of six semesters of part-time study. The curriculum shall carry 128 credits in total which is made-up of:
(a) Compulsory core modules of 96 credits and
(b) Elective modules of 32 credits

<table>
<thead>
<tr>
<th>Core Modules</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL6PPL Introduction to Public Health</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PBHL6BH Basics of Health Measurement</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PBHL6CM Human Resource Management</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PBHL6N1 National Health Systems and Primary Care</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PBHL6SL Public Service Research Project</td>
<td>32</td>
<td>1 &amp; 2</td>
</tr>
</tbody>
</table>
### Elective Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL6QM</td>
<td>Total Quality Management and Corporate Governance</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PBHL6RM</td>
<td>Operations, Risk and Supply Chain Management</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PBHL6CA</td>
<td>Introduction to Child and Adolescent Health</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PBHL6MR</td>
<td>Introduction to Reproductive, Maternal and Newborn Health</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PBHL6DP</td>
<td>Dental Public Health</td>
<td>16</td>
<td>2</td>
</tr>
</tbody>
</table>

### Honours Degrees

#### Bachelor of Medical Science Honours in Anatomy

**CHS-ANATH 1 Eligibility: Bachelor of Medical Science Honours in Anatomy**

Candidates are eligible to apply for selection to register for the qualification of Bachelor of Medical Science Honours in Anatomy provided they have a:

(a) Bachelor of Medical Science in Anatomy, or
(b) Bachelor of Science qualification with an Anatomy major.

**CHS-ANATH 2 Curriculum for the Bachelor of Medical Science Honours in Anatomy**

The curriculum for the qualification Bachelor of Medical Science Honours in Anatomy, comprising modules with a total credit value of 128 credits as approved by the School shall extend over 2 semesters of full time study.

#### Curriculum for Bachelor of Medical Science Honours in Anatomy (HMEANA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMBC7MR</td>
<td>Research Methodology for Medical Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT7AL</td>
<td>Advanced Laboratory Techniques in Anatomy</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT712</td>
<td>Advanced Topics 1</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>ANAT713</td>
<td>Advanced Topics 2</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ANAT7CS</td>
<td>Clinical, Surgical and Radiologic Anatomy</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>ANAT7RP</td>
<td>Research Project</td>
<td>48</td>
<td>Year</td>
</tr>
</tbody>
</table>

#### Bachelor of Medical Science Honours (Medical Biochemistry)

**CHS - MCHMH 1 Eligibility: Bachelor of Medical Science Honours in Medical Biochemistry**

Candidates are eligible to apply for selection to register for the qualification of Bachelor of Medical Science Honours in Medical Biochemistry provided they have a:

(a) Bachelor of Medical Science degree, or
(b) Bachelor of Science degree with majors in Cell Biology and one of Microbiology, Immunology, Biochemistry or Physiology.
CHS - MCHMH 2 Curriculum for the Bachelor of Medical Science Honours in Medical Biochemistry
The curriculum for the qualification Bachelor of Medical Science Honours in Medical Biochemistry, comprising modules with a total credit value of 128 credits as approved by the School, shall extend over 2 semesters of full time study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMBC7MR</td>
<td>Research Methodology for Medical Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HMBC7AL</td>
<td>Advanced Laboratory Techniques in Medical Biochemistry</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HMBC7MD</td>
<td>Molecular mechanisms of disease</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HMBC7ET</td>
<td>Environmental Toxicology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HMBC7AP</td>
<td>Advanced Principles of Metabolic Diseases</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HMBC7RP</td>
<td>Research Project</td>
<td>48</td>
<td>Year</td>
</tr>
</tbody>
</table>

Bachelor of Medical Science Honours (Medical Microbiology)

CHS- MEDMICRH 1 Eligibility: Bachelor of Medical Science Honours in Medical Microbiology
Candidates are eligible to apply for selection to register for the qualification of Bachelor of Medical Science Honours in Medical Microbiology provided they have a;

(a) Bachelor of Medical Science or Bachelor of Science with majors in: Microbiology or Medical Microbiology AND Biochemistry or Immunology or Chemistry or Physiology or Anatomy.
CHS-MEDMICRH 2 Curriculum for the Bachelor of Medical Science Honours in Medical Microbiology

Students for the qualification of Bachelor of Medical Science Honours in Medical Microbiology shall be required to pursue an approved course of study which shall consist of a core programme together with an appropriate specialisation and research on a subject approved by School. The curriculum shall extend across 2 semesters of full time study.

CHS-MEDMICRO 3 Rules of combination for the Bachelor of Medical Science Honours in Medical Microbiology

The Bachelor of Medical Science Honours in Medical Microbiology degree is presented with two specialisation streams, namely:
(a) Medical Microbiology
(b) Infection Prevention and Control.

The Infection Prevention and Control stream will not run in 2018.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMBC7MR</td>
<td>Research Methodology for Medical Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MMGY7AL</td>
<td>Advanced Laboratory Techniques</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MMGY7MV</td>
<td>Advanced Medical Microbiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MMGY7V1</td>
<td>Advanced Medical Virology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>MMGY7B1</td>
<td>Advanced Immunobiology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>MMGY7F1</td>
<td>Microbial Pathogenesis</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>MMGY7RP</td>
<td>Research Project</td>
<td>48</td>
<td>Year</td>
</tr>
</tbody>
</table>

Note that one of MMGY7A1 or MMGY7V1 must be taken in Semester 1.

Bachelor of Medical Science Honours (Physiology)

CHS-PHYSH 1 Eligibility: Bachelor of Medical Science Honours in Physiology

Candidates are eligible to apply for selection to register for the qualification of Bachelor of Medical Science Honours in Physiology provided they have a;
(a) Bachelor of Medical Science in Physiology, or
(b) Bachelor of Science qualification with a Physiology major.
CHS-PHYSH 2 Curriculum for the Bachelor of Medical Science Honours in Physiology

The curriculum for the qualification Bachelor of Medical Science Honours in Physiology, comprising modules with a total credit value of 128 credits as approved by the School, shall extend over 2 semesters of full time study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMBC7MR</td>
<td>Research Methodology for Medical Sciences</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HPHS7AL</td>
<td>Advanced Laboratory Techniques in Physiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HPHS711</td>
<td>Integrative Physiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HPHS721</td>
<td>Applied Physiology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HPHS731</td>
<td>Pathophysiology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HPHS7RP</td>
<td>Research Project</td>
<td>48</td>
<td>Year</td>
</tr>
</tbody>
</table>

Bachelor of Nursing Honours

CHS - NURSH 1 Eligibility: Bachelor of Nursing Honours

A candidate is eligible to apply for selection to register for the qualification Bachelor of Nursing Honours provided they have;

a) an undergraduate qualification in Nursing, with

b) at least two modules in two or more of the following: Psychology, Sociology, Social Anthropology, Industrial Sociology.

CHS - NURSH 2 Curriculum for the Bachelor of Nursing Honours

The curriculum for the qualification Bachelor of Nursing Honours, comprising modules with a total credit value of 128 credits as approved by the College, shall extend over two semesters of full-time study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS708</td>
<td>Nursing Research</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>NURS701</td>
<td>Philosophy of Nursing</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>NURS703</td>
<td>Research Project</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>NURS710</td>
<td>Nursing Management 1</td>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>NURS700</td>
<td>Nursing Management 2</td>
<td>32</td>
<td>2</td>
</tr>
<tr>
<td>NURS704</td>
<td>Nursing Education 1</td>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>NURS709</td>
<td>Nursing Education 2</td>
<td>32</td>
<td>2</td>
</tr>
<tr>
<td>NURS712</td>
<td>Psychiatric Nursing</td>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>NURS707</td>
<td>Specialised Nursing</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Approved postgraduate module from other school</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

And choose modules for 64 credits from:
# Bachelor of Sport Science Honours

## CHS - SPSCH 1 Curriculum for the Bachelor of Sport Science Honours

The curriculum for the qualification Bachelor of Sport Science Honours, comprising modules with a total credit value of not less than 128 credits as approved by the Senate, shall extend over two semesters of full-time study.

### Curriculum for Bachelor of Sport Science Honours (Biokinetics) (SPTSHB)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSBR701</td>
<td>Research Methods &amp; Statistics</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR702</td>
<td>Research Project</td>
<td>32</td>
<td>year</td>
</tr>
<tr>
<td>SSBR715</td>
<td>Clinical Exercise Studies 1</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR716</td>
<td>Clinical Exercise Studies 2</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>SSBR708</td>
<td>Biokinetics 1</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR709</td>
<td>Biokinetics 2</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>SSBR712</td>
<td>Internship</td>
<td>32</td>
<td>year</td>
</tr>
</tbody>
</table>

Total credits for degree: 144

### Curriculum for Bachelor of Sport Science Honours (Exercise Science) (SPTSHE)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSBR701</td>
<td>Research Methods &amp; Statistics</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR702</td>
<td>Research Project</td>
<td>32</td>
<td>year</td>
</tr>
<tr>
<td>SSBR703</td>
<td>Exercise Science</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR704</td>
<td>Exercise Physiology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>SSBR713</td>
<td>Internship</td>
<td>32</td>
<td>year</td>
</tr>
<tr>
<td>SSBR734</td>
<td>Laboratory Techniques in Sport Science &amp; Exercise Physiology</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>SSBR706</td>
<td>Adapted Physical Activity</td>
<td>16</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credits for degree: 144

### Curriculum for Bachelor of Sport Science Honours (Leisure Sciences) (SPTSHR)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSBR701</td>
<td>Research Methods &amp; Statistics</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR711</td>
<td>Leisure Management</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>SSBR702</td>
<td>Research Project</td>
<td>32</td>
<td>year</td>
</tr>
</tbody>
</table>

Total credits for degree: 144
Masters Degrees

Master of Audiology

CHS - AUDOM 1 Eligibility: Master of Audiology
Candidates are eligible to apply for selection to register for the qualification Master of Audiology provided they have a Bachelors qualification in the field of Audiology or Speech Language Pathology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPAU8FY</td>
<td>Masters Research in Audiology</td>
</tr>
<tr>
<td>CPAU8CY</td>
<td>Masters Research in Audiology Continuing</td>
</tr>
<tr>
<td>CPAU8SY</td>
<td>Masters Research in Audiology Subsequent year</td>
</tr>
</tbody>
</table>

Master of Speech-Language Therapy

CHS - SPLPM 1 Eligibility: Master of Speech-Language Therapy
Candidates are eligible to apply for selection to register for the qualification Master of Speech-Language Therapy provided they have a Bachelors qualification in the field of Audiology or Speech-Language Pathology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSL8FY</td>
<td>Masters Research in Speech-Language Therapy</td>
</tr>
<tr>
<td>CPSL8CY</td>
<td>Masters Research in Speech-language Therapy Continuing</td>
</tr>
<tr>
<td>CPSL8SY</td>
<td>Masters Research in Speech-Language Therapy Subsequent year</td>
</tr>
</tbody>
</table>

Master of Hand Rehabilitation

CHS - HAND 1 Eligibility: Master of Hand Rehabilitation
Candidates are eligible to apply for selection to register for the Master of Hand Rehabilitation provided they have a
a) Bachelor of Occupational Therapy, or
b) Bachelor of Physiotherapy, or
c) MBChB qualification.

**CHS - HAND 2 Progression**

Modules in the first year of study must be completed sequentially, viz. OCTH811, OCTH812, OCTH813 then OCTH814.

**CHS - HAND 3 Curriculum for the Master of Hand Therapy by Course-work**

The curriculum for the qualification Master of Hand Therapy, comprising modules with a total credit value of not less than 192 credits as approved by the Senate, shall extend over four semesters of full-time study and research, or eight semesters part-time.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTH811</td>
<td>The Upper Limb: anatomy, physiology, function, injury &amp; disease</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>OCTH812</td>
<td>Hand conditions</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>OCTH813</td>
<td>Hand Rehabilitation: therapeutic practice I: assessment</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>OCTH814</td>
<td>Therapeutic practice II - Occupational Therapy</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>OCTH815</td>
<td>Therapeutic practice II - Physiotherapy</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>OCTH816</td>
<td>Research methods &amp; design</td>
<td>16</td>
<td>Both</td>
</tr>
<tr>
<td>OCTH806</td>
<td>Research Project</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>OCTH807</td>
<td>Research Project – subsequent year</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
</tbody>
</table>

16 credit point elective: Options will be made available during the course

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total credits for degree</td>
<td>192</td>
<td></td>
</tr>
</tbody>
</table>

**Master of Health Sciences**

**CHS - HLSM 1 Eligibility: Master of Health Sciences**

Candidates are eligible to apply for selection to register for the qualification of Master of Health Sciences provided they have obtained an undergraduate Health Science Professional Bachelors qualification.

**CHS – HLSM 2 Curriculum for the Master of Health Sciences**

The curriculum for the qualification Master of Health Sciences, an on-line programme, comprising modules with a total credit value of 192 credits as approved by the Senate, shall extend over four semesters of full-time study and research, or eight semesters part-time.

a) All modules in the curriculum shall be compulsory.
b) All coursework modules need to be completed before registration for the Research Project.
### Curriculum for Master of Health Sciences – On-Line (MMSHSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLSC8H1</td>
<td>Basic Epidemiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC8H2</td>
<td>Introduction to Biostatistical Concepts</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC8H3</td>
<td>Research Methods and Design</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HLSC8H4</td>
<td>Evidence Based Practice</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HLSC8H5</td>
<td>Bioethics</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC8H6</td>
<td>Research Project</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>HLSC8H8</td>
<td>Research Project – subsequent year</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>Elective: choose one</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLSC801</td>
<td>Pharmacovigilance</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC802</td>
<td>Chronic Disease Rehabilitation</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC803</td>
<td>Infection Prevention and Control</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC804</td>
<td>Antibiotic Stewardship &amp; Conservation</td>
<td>16</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total credits for the degree:** 192

An application needs to be made to the School of Health Sciences by candidates wanting to take any of these modules as electives for other degree programmes or for non-degree purposes. Acceptance of candidates is at the discretion of the School.

### Masters of Medicine (MMed)

The Rules which follow deal with all specializations with the MMed except for Public Health Medicine and Occupational Medicine, which are listed separately below.

#### CHS-MMed 1 Eligibility

A candidate is eligible to apply for selection to register for the qualification of a Masters in Medicine, provided that the candidate:

(a) holds a Bachelor of Medicine and Bachelor of Surgery qualification;

(b) has held such qualification for a period of at least two years prior to registration for the MMed; and

(c) satisfies the requirements of the Health Professions Council of South Africa (HPCSA) to enter specialist training; and

(d) satisfies the additional requirements of the specific MMed for which registration is being sought.

#### CHS-MMed 2 Coursework

(a) A student has to submit a Professional Portfolio annually. If these documents receive a satisfactory rating, the student may register for the next year. If not, a student is given three months to redo and resubmit the unsatisfactory work, at which stage an academic exclusion may be done.
(b) Students deemed by the CHS Board to be unsafe practitioners based on their performance in the clinical service areas, may, after a written warning, be excluded from the programme.
(c) Unless otherwise indicated, the qualification takes at least eight semesters.

CHS-MMed 3 Assessment

(a) The University may prescribe the CMSA (Colleges of Medicine of South Africa) examinations for one or more of the Part I and Part II modules. Where this is the case, the rules and regulations of the relevant CMSA College that relate to the examinations in question, shall exclusively apply. All students are expected to acquaint themselves with CMSA rules that affect them. These are available from the CMSA Colleges.
(b) Unless otherwise indicated by the CMSA Colleges, candidates may not present themselves for examination in Part II unless they have been registered for, and completed, a minimum of two semesters since passing Part I.
(c) Assessment of a module shall include one or more of the following, as determined by the Department or CMSA College concerned: Written examinations, objective structured clinical examinations (OSCEs), laboratory practical examinations, a professional portfolio and oral examinations.
(d) The degree may be awarded with distinction where: (i) the candidate has gained a weighted average of 75% or better in the final CMSA examination; and (ii) the dissertation or publication, in the opinion of the School HDRC is of above average standard.
(e) The research project shall be examined in one of the following formats: (i) as a dissertation; or (ii) as an article published or accepted for publication in a SAPSE- or ISI-approved journal, based on the approved protocol and with the candidate as first author, which criteria shall be sufficient for credit as a pass.

CHS-MMed 4 Curriculum

The curriculum (see Table below) of the qualification shall have 720 credits in total. It shall comprise:
(a) one module in research methodology (16 credits);
(b) two major modules of coursework designated Part I and Part II (270 credits each);
(c) a research project (164 credits);
(d) service in an HPCSA-approved specialist training post in the appropriate discipline to comply with conditions laid down by the HPCSA. In particular, the minimum periods of incumbency shall be those reflected in the syllabi. Candidates in these training posts shall be required to administer a standard of service which, through an ethos of humanitarianism and excellence, brings credit to the profession and the University;
(e) service in a supernumerary position. In terms of regulations of the HPCSA, foreign qualified doctors may be employed only in unpaid specialist training posts designated as ‘supernumerary’, and given limited registration by that body.

CHS-MMed 5 Exemption

(a) A student who has passed an examination of the CMSA (in terms of the criteria, rules and regulations of those bodies), or who has passed an equivalent examination accepted by the HPCSA for the purposes of professional registration in the same speciality, may, in
terms of Rule GR 8 and CR 3, be exempted from a corresponding examination prescribed by the University and credited with the relevant module.

(b) A student who is registered with the HPCSA as a specialist in a particular discipline may be exempted from the full coursework requirement of the qualification; such a candidate may be awarded the qualification in the relevant speciality after a minimum of two semesters’ registration in the CHS and submission of a successful dissertation.

(c) Results of CMSA examinations shall be accepted as a Pass or a Fail, as reported by the CMSA.

(d) Unless otherwise indicated in the handbook entry for the relevant module, exemption of not more than 2 years of in-service clinical tuition may be given in respect of training and experience considered to be equivalent for this purpose.

**CHS - MMed 6 Format of Dissertation**
In addition to format prescribed by Rule CR13, the format of dissertation may also comprise a paper published in a SAPSE journal of which the student is the first author.

**CHS - MMed 7 Curriculum table**

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Masters of Medicine: (Public Health Medicine)

CHS - MMed PH 1 Eligibility: Masters of Medicine: (Public Health Medicine)

Candidates must be registered with the Health Professional Council of South Africa as Independent Medical Practitioners and have a minimum of two years of experience in an appropriate health service post.

CHS - MMed PH 2 Format of Dissertation

In addition to the format prescribed by CR13, the format of the dissertation may comprise an introductory chapter, a literature review, a publishable paper, a discussion, and appendices comprising at least: the original research proposal, additional results not reported in the paper, guidelines to authors of the journal in which the student intends to publish, and copy of ethics and higher education committee approvals.

CHS - MMed PH 3 Curriculum

Students are required to obtain 720 credits as listed below.

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Master of Medicine (Occupational Medicine)

CHS - MMed OM 1- Eligibility:
Candidates must be registered with the Health Professional Council of South Africa as Independent Medical Practitioners and have a minimum of two years of experience in an appropriate health service post.

CHS - MMed OM 1 Format of Dissertation
In addition to the format prescribed by CR13, the format of the dissertation may comprise an introductory chapter, a literature review, a publishable paper, a discussion, and appendices comprising at least: the original research proposal, additional results not reported in the paper, guidelines to authors of the journal in which the student intends to publish, and copy of ethics and higher education committee approvals.

CHS - MMed OM 2 Curriculum
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<td>PBHL8JM2</td>
<td>Health Measurement (Analytical)</td>
<td>16</td>
</tr>
<tr>
<td>PBHL8E1</td>
<td>Intermediate Epidemiology</td>
<td>16</td>
</tr>
<tr>
<td>PBHL8X1</td>
<td>Research Method and Bioethics</td>
<td>16</td>
</tr>
<tr>
<td>OCEH8RP</td>
<td>Research Dissertation</td>
<td>164</td>
</tr>
<tr>
<td>OCEH8W1</td>
<td>Occupational Medicine Clinical and Professional Practice 1</td>
<td>222</td>
</tr>
<tr>
<td>OCEH8BA</td>
<td>Occupational Medicine Clinical and Professional Practice 2</td>
<td>270</td>
</tr>
</tbody>
</table>

Master of Medical Science (Anaesthetics)

CHS-ANAEM 1 Eligibility for the Master of Medical Science in Anaesthetics
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Anaesthetics) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.
### Curriculum for Master of Medical Science – Anaesthetics (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>ANAE8F1</td>
<td>Masters research in Anaesthetics</td>
</tr>
<tr>
<td>ANAE8CY</td>
<td>Masters research in Anaesthetics continuing</td>
</tr>
<tr>
<td>ANAE8YS</td>
<td>Masters research in Anaesthetics Subsequent year</td>
</tr>
<tr>
<td>ANAE8P1</td>
<td>Masters research in Anaesthetics Part-time Y1</td>
</tr>
<tr>
<td>ANAE8P2</td>
<td>Masters research in Anaesthetics Part-time Y2</td>
</tr>
</tbody>
</table>

### Master of Medical Science (Anatomy)

**CHS-ANATM 1 Eligibility for the Master of Medical Science in Anatomy**

Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Anatomy provided they have a:
1. Bachelor of Medical Science Honours in Anatomy, or
2. Bachelor of Science Honours qualification in Anatomy, or
3. Professional Bachelors degree deemed appropriate by the School for postgraduate training in Anatomy

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>ANAT8FY</td>
<td>Masters research in Anatomy</td>
</tr>
<tr>
<td>ANAT8CY</td>
<td>Masters research in Anatomy continuing</td>
</tr>
<tr>
<td>ANAT8SY</td>
<td>Masters research in Anatomy subsequent year</td>
</tr>
<tr>
<td>ANAT8P1</td>
<td>Masters research in Anatomy Part-time Y1</td>
</tr>
<tr>
<td>ANAT8P2</td>
<td>Masters research in Anatomy Part-time Y2</td>
</tr>
</tbody>
</table>

### Master of Medical Science (Anatomical Pathology)

**CHS-ANAPM 1 Eligibility for the Master of Medical Science in Anatomical Pathology**

Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Anatomical Pathology provided they have a:
1. Bachelor of Medical Science Honours, or
2. Bachelor of Science Honours, or
3. Professional Bachelors degree deemed appropriate by the School for postgraduate training in Anatomical Pathology

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAP8F1</td>
<td>Masters research in Anatomical Pathology</td>
</tr>
<tr>
<td>ANAP8CY</td>
<td>Masters research in Anatomical Pathology continuing</td>
</tr>
<tr>
<td>ANAP8YS</td>
<td>Masters research in Anatomical Pathology subsequent year</td>
</tr>
<tr>
<td>ANAP8P1</td>
<td>Masters research in Anatomical Pathology Part-time Y1</td>
</tr>
<tr>
<td>ANAP8P2</td>
<td>Masters research in Anatomical Pathology Part-time Y2</td>
</tr>
</tbody>
</table>
Master of Medical Science (Behavioural Medicine)

CHS-BHMED 1 Eligibility for Master of Medical Science – Behavioural Medicine

a) Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science (Behavioural Medicine) provided they have an Honours degree in Psychology or a Bachelor of Psychology degree or a Bachelor of Psychology equivalent qualification.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>BHME82F</td>
<td>M Thesis Behavioural Medicine F/T Yr1</td>
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<tr>
<td>BHME8CY</td>
<td>M Thesis Behavioural Medicine Continuing</td>
</tr>
<tr>
<td>BHME82Y</td>
<td>M Thesis Behavioural Medicine Subseq Yr</td>
</tr>
</tbody>
</table>

Master of Medical Science (Cardiology)

CHS-CARDM 1 Eligibility for Master of Medical Science in Cardiology

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Cardiology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>CARD8F1</td>
<td>Masters research in Cardiology</td>
</tr>
<tr>
<td>CARD8CY</td>
<td>Masters research in Cardiology continuing</td>
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<tr>
<td>CARD8YS</td>
<td>Masters research in Cardiology subsequent year</td>
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<tr>
<td>CARD8P1</td>
<td>Masters research in Cardiology (Part Time Y1)</td>
</tr>
<tr>
<td>CARD8P2</td>
<td>Masters research in Cardiology (Part Time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Cardiothoracic Surgery)

CHS-CSURM 1 Eligibility for Master of Medical Science in Cardiothoracic Surgery

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Cardiothoracic Surgery) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>CSUR8F1</td>
<td>Masters research in Cardiothoracic Surgery</td>
</tr>
</tbody>
</table>
Master of Medical Science (Dermatology)

CHS-DERMM 1 Eligibility for Master of Medical Science Dermatology
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Dermatology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

Curriculum for Master of Medical Science – Dermatology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>DERM8F1</td>
<td>Masters research in Dermatology</td>
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<tr>
<td>DERM8CY</td>
<td>Masters research in Dermatology continuing</td>
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<tr>
<td>DERM8YS</td>
<td>Masters research in Dermatology subsequent year</td>
</tr>
<tr>
<td>DERM8P1</td>
<td>Masters research in Dermatology Part-time Y1</td>
</tr>
<tr>
<td>DERM8P2</td>
<td>Masters research in Dermatology Part-time Y2</td>
</tr>
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</table>

Master of Medical Science (Emergency Medicine)

CHS-MEDIM 1 Eligibility for Master of Medical Science in Emergency Medicine
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Emergency Medicine) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

Curriculum for Master of Medical Science – Emergency Medicine (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>EMER8F1</td>
<td>Masters research in Emergency Medicine</td>
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<tr>
<td>EMER8CY</td>
<td>Masters research in Emergency Medicine continuing</td>
</tr>
<tr>
<td>EMER8YS</td>
<td>Masters research in Emergency Medicine subsequent year</td>
</tr>
<tr>
<td>EMER8P1</td>
<td>Masters research in Emergency Medicine (Part-time Y1)</td>
</tr>
<tr>
<td>EMER8P2</td>
<td>Masters research in Emergency Medicine (Part-time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Family Medicine)

CHS - MMed FM 1 Eligibility: Master of Medical Science (Family Medicine)
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Family Medicine) provided that they hold;
a) a Bachelor of Medicine and Bachelor of Surgery degree; and  
b) have held such qualification for a period of at least two years prior to registration for the MMedSci (FamMed) degree.

CHS - MMed FM 2 Curriculum

<table>
<thead>
<tr>
<th>Master of Medical Science (Family Medicine)(MMDSC)</th>
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<tbody>
<tr>
<td><strong>Code</strong></td>
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<tr>
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<tr>
<td>FAME8CY</td>
</tr>
<tr>
<td>FAME82Y</td>
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</table>

Master of Medical Science (Forensic Medicine)

CHS – FOMEM 1 Eligibility: Master of Medical Science (Forensic Medicine)

Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Forensic Medicine provided they have a;

(a) Bachelor of Medical Science Honours, or  
(b) Bachelor of Science Honours, or  
(c) Professional Bachelors degree deemed appropriate by the School for postgraduate training in Forensic Medicine

<table>
<thead>
<tr>
<th>Curriculum for Master of Medical Science – Forensic Medicine (MMDSC)</th>
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<td><strong>Code</strong></td>
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</tr>
<tr>
<td>FOME8P1</td>
</tr>
<tr>
<td>FOME8P2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Haematology)

CHS – HAEMM 1 Eligibility: Master of Medical Science (Haematology)

Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Haematology provided they have a;

(a) Bachelor of Medical Science Honours with Haematology as a subject or  
(b) Bachelor of Science Honours qualification with Haematology as a subject or  
(c) Professional Bachelors degree deemed appropriate by the School for postgraduate training in Haematology

<table>
<thead>
<tr>
<th>Curriculum for Master of Medical Science – Haematology (MMDSC)</th>
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</thead>
<tbody>
<tr>
<td><strong>Code</strong></td>
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<td>HAEM8F1</td>
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<tr>
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<tr>
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<tr>
<td>HAEM8CY</td>
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<tr>
<td>HAEM8YS</td>
</tr>
<tr>
<td>HAEM81P</td>
</tr>
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<td>HAEM82P</td>
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</table>

**Master of Medical Science (Medical Biochemistry)**

**CHS-HMBCM 1 Eligibility for the Master of Medical Science in Medical Biochemistry**

Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Medical Biochemistry provided they have a:

(a) Bachelor of Medical Science Honours, or
(b) Bachelor of Science Honours, or
(c) Professional Bachelors degree deemed appropriate by the School for postgraduate training in Medical Biochemistry

**Curriculum for Master of Medical Science in Medical Biochemistry (M-MDSC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>HMBC8F1</td>
<td>Masters research in Medical Biochemistry</td>
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<tr>
<td>HMBC8CY</td>
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<tr>
<td>HMBC8FS</td>
<td>Masters research in Medical Biochemistry (subsequent year)</td>
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<tr>
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<td>Masters research in Medical Biochemistry Part-time Y2</td>
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<tr>
<td>HMBC8P2</td>
<td>Masters research in Medical Biochemistry Part-time Y2</td>
</tr>
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</table>

**Master of Medical Science (Medical Informatics)**

**CHS- MMed INFOR 1 Eligibility: Master of Medical Science (Medical Informatics)**

Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science (Medical Informatics) provided they hold;

(a) a relevant Honours Degree;
(b) a relevant Post Graduate Diploma.

**Curriculum for Master of Medical Science (Medical Informatics) (MMSMI)**

<table>
<thead>
<tr>
<th>Core Modules</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>INFT8E2</td>
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<tr>
<td>INFT8A2</td>
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<tr>
<td>INFT8O1</td>
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<td>INFT8Z1</td>
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<table>
<thead>
<tr>
<th>Elective Modules</th>
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<tr>
<td>Code</td>
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<td>INFT8U2</td>
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<td>INFT81N</td>
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<tr>
<td>INFT8B2</td>
</tr>
<tr>
<td>INFT8Q1</td>
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</table>
Master of Medical Science (Medical Microbiology)

**CHS-MMGYM 1 Eligibility for the Master of Medical Science in Medical Microbiology**

Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science in Medical Microbiology provided they have a:

(a) Bachelor of Medical Science Honours in Medical Microbiology, or
(b) Bachelor of Science Honours qualification in Medical Microbiology or Microbiology, or
(c) Professional Bachelors degree deemed appropriate by the School for postgraduate training in Medical Microbiology

**Curriculum for Master of Medical Science – Medical Microbiology (MMDSC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>MMGY8F1</td>
<td>Masters research in Medical Microbiology</td>
</tr>
<tr>
<td>MMGY8CY</td>
<td>Masters research in Medical Microbiology continuing</td>
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<td>MMGY8YS</td>
<td>Masters research in Medical Microbiology subsequent year</td>
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<td>Masters research in Medical Microbiology Part-time Y1</td>
</tr>
<tr>
<td>MMGY82P</td>
<td>Masters research in Medical Microbiology Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Medicine)

**CHS-MEDIM 1 Eligibility for Master of Medical Science in Medicine**

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Medicine) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

**Curriculum for Master of Medical Science – Medicine (MMDSC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDI8F1</td>
<td>Masters research in Medicine</td>
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<tr>
<td>MEDI8CY</td>
<td>Masters research in Medicine continuing</td>
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<tr>
<td>MEDI8YS</td>
<td>Masters research in Medicine subsequent year</td>
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<tr>
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<td>Masters research in Medicine (Part-time Y1)</td>
</tr>
<tr>
<td>MEDI8P2</td>
<td>Masters research in Medicine (Part-time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Neurology)

**CHS- Eligibility for Master of Medical Science in Neurology**

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Neurology) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or
b) a professional Honours degree deemed appropriate by the School.

### Curriculum for Master of Medical Science – Neurology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR8F1</td>
<td>Masters research in Neurology</td>
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<tr>
<td>NEUR8CY</td>
<td>Masters research in Neurology continuing</td>
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<td>NEUR8YS</td>
<td>Masters research in Neurology subsequent year</td>
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<tr>
<td>NEUR8P1</td>
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</tr>
<tr>
<td>NEUR8P2</td>
<td>Masters research in Neurology Part-time Y2</td>
</tr>
</tbody>
</table>

### Master of Medical Science (Neurosurgery)

**CHS-NEURM 1 Eligibility for Master of Medical Science in Neurosurgery**

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Neurosurgery) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

### Curriculum for Master of Medical Science – Neurosurgery (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>NSUR8F1</td>
<td>Masters research in Neurosurgery</td>
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<tr>
<td>NSUR8CY</td>
<td>Masters research in Neurosurgery continuing</td>
</tr>
<tr>
<td>NSUR8YS</td>
<td>Masters research in Neurosurgery subsequent year</td>
</tr>
<tr>
<td>NSUR81P</td>
<td>Masters research in Neurosurgery (Part Time Y1)</td>
</tr>
<tr>
<td>NSUR82P</td>
<td>Masters research in Neurosurgery (Part Time Y2)</td>
</tr>
</tbody>
</table>

### Master of Medical Science (Obstetrics and Gynaecology)

**CHS-OBGYM 1 Eligibility for Master of Medical Science in Obstetrics and Gynaecology**

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Obstetrics and Gynaecology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

### Curriculum for Master of Medical Science – Obstetrics and Gynaecology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBGY8F1</td>
<td>Masters research in Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>OBGY8CY</td>
<td>Masters research in Obstetrics and Gynaecology continung</td>
</tr>
<tr>
<td>OBGY8YS</td>
<td>Masters research in Obstetrics and Gynaecology subsequent year</td>
</tr>
<tr>
<td>OBGY8P1</td>
<td>Masters research in Obstetrics and Gynaecology Part-time Y1</td>
</tr>
<tr>
<td>OBGY8P2</td>
<td>Masters research in Obstetrics and Gynaecology Part-time Y2</td>
</tr>
</tbody>
</table>
Master of Medical Science (Occupational and Environmental Health)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCEH82F</td>
<td>M Thesis Occupational and Environmental Health F/T Yr1</td>
</tr>
<tr>
<td>OCEH8CY</td>
<td>M Thesis Occup &amp; Environ Health Continuing</td>
</tr>
<tr>
<td>OCEH82Y</td>
<td>M Thesis Occupational and Environmental Health Subseq Yr</td>
</tr>
</tbody>
</table>

Master of Medical Science (Ophthalmology)

CHS-OPTHM 1 Eligibility for Master of Medical Science in Ophthalmology

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Ophthalmology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>OPTH81F</td>
<td>Masters research in Ophthalmology</td>
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<tr>
<td>OPTH8CY</td>
<td>Masters research in Ophthalmology continuing</td>
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<td>OPTH8SY</td>
<td>Masters research in Ophthalmology subsequent year</td>
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<tr>
<td>OPTH81P</td>
<td>Masters research in Ophthalmology Part-time Y1</td>
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<tr>
<td>OPTH82P</td>
<td>Masters research in Ophthalmology Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Optics and Imaging)

CHS-ANATM 1 Eligibility for the Master of Medical Science in Optics and Imaging

Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science in Optics and Imaging provided they have a;

(a) Bachelor of Medical Science Honours, or

(b) Bachelor of Science Honours, or

(c) Professional Bachelors degree deemed appropriate by the School for postgraduate training in Optics and Imaging

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>OPTC8F1</td>
<td>Masters research in Optics and Imaging</td>
</tr>
<tr>
<td>OPTC8CY</td>
<td>Masters research in Optics and Imaging continuing</td>
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<td>OPTC8YS</td>
<td>Masters research in Optics and Imaging subsequent year</td>
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<tr>
<td>OPTC8P1</td>
<td>Masters research in Optics and Imaging Part-time Y1</td>
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<tr>
<td>OPTC8P2</td>
<td>Masters research in Optics and Imaging Part-time Y2</td>
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</tbody>
</table>
Master of Medical Science (Orthopaedic Surgery)

CHS-ORPSM 1 Eligibility for Master of Medical Science in Orthopaedic Surgery

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Orthopaedic Surgery) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>ORPS8F1</td>
<td>Masters research in Orthopaedic Surgery</td>
</tr>
<tr>
<td>ORPS8CY</td>
<td>Masters research in Orthopaedic Surgery continuing</td>
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<tr>
<td>ORPS8YS</td>
<td>Masters research in Orthopaedic Surgery subsequent year</td>
</tr>
<tr>
<td>ORPS8P1</td>
<td>Masters research in Orthopaedic Surgery Part-time Y1</td>
</tr>
<tr>
<td>ORPS8P2</td>
<td>Masters research in Orthopaedic Surgery Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Otorhinolaryngology)

CHS-ORPSM 1 Eligibility for Master of Medical Science in Otorhinolaryngology

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Otorhinolaryngology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHLY8F1</td>
<td>Masters research in Otorhinolaryngology</td>
</tr>
<tr>
<td>OHLY8CY</td>
<td>Masters research in Otorhinolaryngology Surgery continuing</td>
</tr>
<tr>
<td>OHLY8SY</td>
<td>Masters research in Otorhinolaryngology subsequent year</td>
</tr>
<tr>
<td>OHLY81P</td>
<td>Masters research in Otorhinolaryngology Part-time Y1</td>
</tr>
<tr>
<td>OHLY82P</td>
<td>Masters research in Otorhinolaryngology Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Paediatrics)

CHS-PAEDM 1 Eligibility for Master of Medical Science in Paediatrics

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Paediatrics) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.
Curriculum for Master of Medical Science – Paediatrics (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAED8F1</td>
<td>Masters research in Paediatrics</td>
</tr>
<tr>
<td>PAED8CY</td>
<td>Masters research in Paediatrics continuing</td>
</tr>
<tr>
<td>PAED8YS</td>
<td>Masters research in Paediatrics subsequent year</td>
</tr>
<tr>
<td>PAED8P1</td>
<td>Masters research in Paediatrics (Part-time Y1)</td>
</tr>
<tr>
<td>PAED8P2</td>
<td>Masters research in Paediatrics (Part-time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Paediatric Surgery)

CHS-PSGYM 1 Eligibility for Master of Medical Science in Paediatric Surgery
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Paediatric Surgery) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or
b) a professional Honours degree deemed appropriate by the School.

Curriculum for Master of Medical Science – Paediatric Surgery (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSGY8F1</td>
<td>Masters research in Paediatric Surgery</td>
</tr>
<tr>
<td>PSGY8CY</td>
<td>Masters research in Paediatric Surgery continuing</td>
</tr>
<tr>
<td>PSGY8YS</td>
<td>Masters research in Paediatric Surgery subsequent year</td>
</tr>
<tr>
<td>PSGY81P</td>
<td>Masters research in Paediatric Surgery (Part Time Y1)</td>
</tr>
<tr>
<td>PSGY82P</td>
<td>Masters research in Paediatric Surgery (Part Time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Pharmacology)

CHS - PHMC 1 Eligibility: Master of Medical Science (Pharmacology)
Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science (Pharmacology) provided they have a:

a) Bachelor of Pharmacy qualification, or
b) MBChB qualification, or
c) Bachelor of Medical Science in Human Physiology qualification.

Curriculum for the Master of Medical Science in Pharmacology (M-MDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM8EY</td>
<td>Masters research in Pharmacology</td>
</tr>
<tr>
<td>PHRM8C1</td>
<td>Masters research in Pharmacology continuing</td>
</tr>
<tr>
<td>PHRM8FY</td>
<td>Masters research in Pharmacology subsequent year</td>
</tr>
</tbody>
</table>
Master of Medical Science (Physiology)
CHS-PHYSM 1 Eligibility for the Master of Medical Science in Physiology
Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science in Physiology provided they have an Honours degree in Physiology or related subject such as Molecular Biology, Biochemistry, Immunology or Cell Biology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPHS8F1</td>
<td>Masters research in Physiology</td>
</tr>
<tr>
<td>HPHS8CY</td>
<td>Masters research in Physiology continuing</td>
</tr>
<tr>
<td>HPHS8SY</td>
<td>Masters research in Physiology subsequent year</td>
</tr>
<tr>
<td>HPHS8P1</td>
<td>Masters research in Physiology Part-time Y1</td>
</tr>
<tr>
<td>HPHS8P2</td>
<td>Masters research in Physiology Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Plastic & Reconstructive Surgery)
CHS-PSGYM 1 Eligibility for Master of Medical Science in Plastic & Reconstructive Surgery
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Plastic & Reconstructive Surgery) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or
b) a professional Honours degree deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLRS8F1</td>
<td>Masters research in Plastic &amp; Reconstructive Surgery</td>
</tr>
<tr>
<td>PLRS8CY</td>
<td>Masters research in Plastic &amp; Reconstructive Surgery continuing</td>
</tr>
<tr>
<td>PLRS8SY</td>
<td>Masters research in Plastic &amp; Reconstructive Surgery subsequent year</td>
</tr>
<tr>
<td>PLRS8P1</td>
<td>Masters research in Plastic &amp; Reconstructive Surgery (Part Time Y1)</td>
</tr>
<tr>
<td>PLRS8P2</td>
<td>Masters research in Plastic &amp; Reconstructive Surgery (Part Time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Psychiatry)
CHS-PSYT M 1 Eligibility for Master of Medical Science in Psychiatry
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Psychiatry) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or
b) a professional Honours degree deemed appropriate by the School.
Master of Medical Science (Public Health)

CHS–PH 1 Eligibility Criteria
A 4-year Bachelor degree at a honour’s level in a health related or social science discipline * or a Post Graduate Diploma in Public Health and; * A minimum of 1 year program or clinical experience in the health or social sector (post community service) The curriculum for the Master of Public Health shall carry 192 credits in total which is made-up of:

1. Compulsory core modules of 64 credits and
2. Two Elective modules of 32 credits
3. Research Project of 96 credits

Master of Medical Science (Radiology)

CHS- Eligibility for Master of Medical Science in Radiology
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Radiology) provided that they hold;

1. a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or
2. a professional Honours degree deemed appropriate by the School.

Curriculum for Master of Medical Science (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>PSTY8F1</td>
<td>Masters research in Psychiatry</td>
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<tr>
<td>PSTY8CY</td>
<td>Masters research in Psychiatry continuing</td>
</tr>
<tr>
<td>PSTY8YS</td>
<td>Masters research in Psychiatry subsequent year</td>
</tr>
<tr>
<td>PSTY8P1</td>
<td>Masters research in Psychiatry (Part-time Y1)</td>
</tr>
<tr>
<td>PSTY8P2</td>
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</table>

Curriculum for Master of Medical Science in Public Health (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>PBHL82F</td>
<td>M Thesis Comm Health F/T Yr1</td>
</tr>
<tr>
<td>PBHL8CY</td>
<td>M Thesis Comm Health Continuing</td>
</tr>
<tr>
<td>PBHL82Y</td>
<td>M Thesis Comm Health Subseq Yr</td>
</tr>
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</table>

Curriculum for Master of Medical Science – Radiology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>RADI81F</td>
<td>Masters research in Radiology</td>
</tr>
<tr>
<td>RADI8CY</td>
<td>Masters research in Radiology continuing</td>
</tr>
<tr>
<td>RADI8YS</td>
<td>Masters research in Radiology subsequent year</td>
</tr>
<tr>
<td>RADI81P</td>
<td>Masters research in Radiology (Part time Y1)</td>
</tr>
<tr>
<td>RADI82P</td>
<td>Masters research in Radiology subsequent year (Part time Y2)</td>
</tr>
</tbody>
</table>
Master of Medical Science (Radiotherapy and Oncology)

CHS-RTPY 1 Eligibility for Master of Medical Science in Radiotherapy and Oncology

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Radiotherapy and Oncology) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree; and
b) have held such qualification for a period of at least two years prior to registration for the MMedSci degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>RTPY81F</td>
<td>Masters research in Radiotherapy</td>
</tr>
<tr>
<td>RTPY8CY</td>
<td>Masters research in Radiotherapy continuing</td>
</tr>
<tr>
<td>RTPY8YS</td>
<td>Masters research in Radiotherapy and Oncology subsequent year</td>
</tr>
<tr>
<td>RTPY8P1</td>
<td>Masters research in Radiotherapy Part-time Y1</td>
</tr>
<tr>
<td>RTPY8P2</td>
<td>Masters research in Radiotherapy Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Medical Science (Surgery)

CHS-SURGM 1 Eligibility for Master of Medical Science in Surgery

Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Surgery) provided that they hold:

a) a Bachelor of Medicine and Bachelor of Surgery degree; and
b) have held such qualification for a period of at least two years prior to registration for the MMedSci degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURG81F</td>
<td>Masters research in Surgery</td>
</tr>
<tr>
<td>SURG8CY</td>
<td>Masters research in Surgery continuing</td>
</tr>
<tr>
<td>SURG8YS</td>
<td>Masters research in Surgery subsequent year</td>
</tr>
<tr>
<td>SURG8P1</td>
<td>Masters research in Surgery (Part Time Y1)</td>
</tr>
<tr>
<td>SURG8P2</td>
<td>Masters research in Surgery (Part Time Y2)</td>
</tr>
</tbody>
</table>

Master of Medical Science (Telemedicine)

CHS- MMed TELEM 1 Eligibility: Master of Medical Science (Telemedicine)

Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science (Telemedicine) provided they hold:

(a) a relevant Honours Degree;
(b) a relevant Post Graduate Diploma.
Curriculum for Master of Medical Science (Telemedicine) (MMS-TM)

<table>
<thead>
<tr>
<th>Core Modules</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFT811</td>
<td>Introduction to Telemedicine</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT8T2</td>
<td>eHealth from Theory to Practice</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT81K</td>
<td>eHealth governance</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT8X2</td>
<td>Economics and assessment of eHealth</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT8O1</td>
<td>Research methodology in eHealth</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT8Z1</td>
<td>eHealth Research project</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Elective Modules</td>
<td>INFT8Q1</td>
<td>International eHealth</td>
<td>16</td>
</tr>
<tr>
<td>INFT81P</td>
<td>Primer on Medical Information Systems</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>INFT81N</td>
<td>Introduction to Biostatistics</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Master of Medical Science Research (Medical Informatics)

CHS- MMed INFORR 1 Eligibility: Master of Medical Science Research (Medical Informatics)
Candidates are eligible to apply for selection to register for the qualification Master of Medical Informatics provided they have a relevant Honours degree or a Professional Bachelors Degree.

Curriculum for Masters of Medical Science (Medical Informatics) – Research (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFT82F</td>
<td>Masters Research in Medical Informatics</td>
</tr>
<tr>
<td>INFT8CY</td>
<td>Masters Research in Medical Informatics Continuing</td>
</tr>
<tr>
<td>INFT82Y</td>
<td>Masters Research in Medical Informatics Subsequent Year</td>
</tr>
</tbody>
</table>

Master of Medical Science (Urology)

CHS- UROL 1 Eligibility for Master of Medical Science in Urology
Candidates are eligible to apply for selection to register for the degree of Master of Medical Science (Urology) provided that they hold;

a) a Bachelor of Medicine and Bachelor of Surgery degree and have held such qualification for a period of at least two years prior to registration for the MMedSci degree; or

b) a professional Honours degree deemed appropriate by the School.

Curriculum for Master of Medical Science – Urology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>UROL8F1</td>
<td>Masters research in Urology</td>
</tr>
</tbody>
</table>
Master of Medical Science (Virology)

CHS-VIGYM 1 Eligibility for the Master of Medical Science in Virology
Candidate are eligible to apply for selection to register for the qualification of Master of Medical Science in Virology provided they have a:
(a) Bachelor of Medical Science Honours with subjects deemed appropriate by the School for postgraduate training in Virology, or
(b) Bachelor of Science Honours with subjects deemed appropriate by the School for postgraduate training in Virology, or
(c) Professional Bachelor’s degree deemed appropriate by the School for postgraduate training in Virology

Curriculum for Master of Medical Science – Virology (MMDSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIGY8F1</td>
<td>Masters research in Virology</td>
</tr>
<tr>
<td>VIGY8CY</td>
<td>Masters research in Virology continuing</td>
</tr>
<tr>
<td>VIGY8YS</td>
<td>Masters research in Virology subsequent year</td>
</tr>
<tr>
<td>VIGY8P1</td>
<td>Masters research in Virology Part-time Y1</td>
</tr>
<tr>
<td>VIGY8P2</td>
<td>Masters research in Virology Part-time Y2</td>
</tr>
</tbody>
</table>

Master of Nursing

CHS - NURSM 1 Eligibility: Master of Nursing by research or course-work
Candidates are eligible to apply for selection to register for the qualification Master of Nursing provided they have a:
(a) Bachelor of Nursing, or
(b) Bachelor of Nursing Honours.

CHS - NURSM 2 Curriculum for the Master of Nursing by Research or Course-work
a) The curriculum for the qualification Master of Nursing, offered by research or course-work, shall comprise a total of 192 credits.
b) A student proceeding with a research masters shall register for a research project.
c) A student proceeding with the course-work masters shall register for credits, as approved by the School, including a School research module (16 credits)
### Master of Nursing by Research

**Curriculum for Master of Nursing (Research)(M-NUR)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS82F</td>
<td>Masters research in Nursing</td>
</tr>
<tr>
<td>NURS8CY</td>
<td>Masters research in Nursing continuing</td>
</tr>
<tr>
<td>NURS82Y</td>
<td>Masters research in Nursing subsequent year</td>
</tr>
</tbody>
</table>

### Master of Nursing by Coursework

**Curriculum for Master of Nursing**

**Master in Nursing in Critical Care and Trauma (MN-TCC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS802</td>
<td>Applied Critical Care Nursing</td>
<td>16</td>
</tr>
<tr>
<td>NURS815</td>
<td>Essentials of Critical Care Nursing</td>
<td>16</td>
</tr>
<tr>
<td>NURS825</td>
<td>Trauma Nursing and Life Support</td>
<td>16</td>
</tr>
</tbody>
</table>

**1 Module from the following Elective Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS816</td>
<td>Qualitative Research</td>
<td>16</td>
</tr>
<tr>
<td>NURS817</td>
<td>Family Collaboration and Support in Health Care Settings</td>
<td>16</td>
</tr>
</tbody>
</table>

**Master in Nursing in Mental Health Nursing ((MN-MHL))**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS803</td>
<td>Advanced mental health nursing skills</td>
<td>16</td>
</tr>
<tr>
<td>NURS809</td>
<td>Current issues in mental health care</td>
<td>16</td>
</tr>
<tr>
<td>NURS817</td>
<td>Family Collaboration and Support in Health Care Settings</td>
<td>16</td>
</tr>
<tr>
<td>NURS835</td>
<td>Psychosocial Rehabilitation</td>
<td>16</td>
</tr>
</tbody>
</table>

**Master in Nursing in Nursing Education (MN-EDU)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
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</table>
### Master in Nursing (MN-RN)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS816</td>
<td>Qualitative Research</td>
<td>16</td>
</tr>
<tr>
<td>PBHL8J1M1</td>
<td>Health measurement - descriptive</td>
<td>16</td>
</tr>
<tr>
<td>PBHL8J1M2</td>
<td>Health measurement - analytic</td>
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**Core Specialist Modules**

<table>
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<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
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**Elective Modules**

1 Module from the following Elective Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS837</td>
<td>Evidence Based Nursing Practice</td>
<td>16</td>
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<tr>
<td>NURS</td>
<td>Roles and Responsibilities of a Nurse Researcher</td>
<td>16</td>
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</table>

### Master in Nursing (MN-CW)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS807</td>
<td>Comparative Health Systems</td>
<td>16</td>
</tr>
<tr>
<td>NURS808</td>
<td>Evaluation of Health Care Systems</td>
<td>16</td>
</tr>
<tr>
<td>NURS832</td>
<td>Human Resources Management for Nurse Managers</td>
<td>16</td>
</tr>
<tr>
<td>NURS829</td>
<td>Health Services Management Issues for African Nurse Managers</td>
<td>16</td>
</tr>
</tbody>
</table>

### Master in Nursing in Community Health Nursing (MN-CMH)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
</tbody>
</table>

**Core Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>Code</td>
<td>Name of Module</td>
<td>Credits</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS806</td>
<td>Current and Emerging issues in Community Health Nursing</td>
<td>16</td>
</tr>
<tr>
<td>NURS820</td>
<td>Advanced Community Health Promotion</td>
<td>16</td>
</tr>
<tr>
<td>NURS808</td>
<td>Evaluation of Health Care Systems</td>
<td>16</td>
</tr>
</tbody>
</table>

1 Module from the following Elective Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHL8JM1</td>
<td>Health Measurement - descriptive</td>
<td>16</td>
</tr>
<tr>
<td>NURS807</td>
<td>Comparative Health Systems</td>
<td>16</td>
</tr>
</tbody>
</table>

**Master in Nursing in Advanced Midwifery & Maternal, Child and Women’s Health (MN-MCH)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS810</td>
<td>Advanced Midwifery and Neonatal Nursing</td>
<td>32</td>
</tr>
<tr>
<td>NURS804</td>
<td>Child and Adolescent Health</td>
<td>16</td>
</tr>
<tr>
<td>NURS827</td>
<td>Women's Health</td>
<td>16</td>
</tr>
</tbody>
</table>

**Master in Nursing in Gerontological Nursing (MN-CW)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS822</td>
<td>Advanced Practice Nurse Role</td>
<td>16</td>
</tr>
<tr>
<td>NURS860</td>
<td>Research Project</td>
<td>96</td>
</tr>
<tr>
<td>NURS861</td>
<td>Research Project subsequent year</td>
<td>96</td>
</tr>
<tr>
<td>NURS831</td>
<td>Nursing Research and Nursing Research Methods</td>
<td>16</td>
</tr>
</tbody>
</table>

**Core Specialist Modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS841</td>
<td>Theoretical Basis for Gerontological Nursing</td>
<td>16</td>
</tr>
<tr>
<td>NURS842</td>
<td>The Care of Aging Clients</td>
<td>16</td>
</tr>
<tr>
<td>NURS843</td>
<td>Assessment of the Geriatric Client</td>
<td>16</td>
</tr>
</tbody>
</table>

1 Module from the following Elective Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS816</td>
<td>Qualitative Research</td>
<td>16</td>
</tr>
<tr>
<td>NURS 817</td>
<td>Family Collaboration and Support in Health Care Settings</td>
<td>16</td>
</tr>
</tbody>
</table>

**Master of Occupational Therapy**

**CHS - OCTHM 1 Eligibility: Master of Occupational Therapy**

Candidates are eligible to apply for selection to register for the qualification Master of Occupational Therapy provided they have a Bachelors of Occupational Therapy qualification.
Master of Optometry

CHS - OPTMM 1 Eligibility: Master of Optometry
Candidates are eligible to apply for selection to register for the qualification of Master of Optometry provided they have a Bachelor of Optometry qualification.

Master of Pharmacy

CHS - PHRMM 1 Eligibility: Master of Pharmacy (Pharmacy Practice/Pharmaco-economics)
Candidates are eligible to apply for selection to register for the qualification Master of Pharmacy (Pharmacy Practice / Pharmacoeconomics) provided they have

a) i) Bachelor of Pharmacy qualification, or
   ii) MBChB qualification, and
b) at least two (2) years of experience in the pharmaceutical services (industry, community or hospital) for the Pharmacy Practice stream, or
c) at least two (2) years of experience in the pharmaceutical industry, managed health care or health facility management for the Pharmacoeconomics stream

CHS - PHRMM 2 Curriculum for the Master of Pharmacy (Pharmacy Practice/Pharmaco-economics) by course-work
The curriculum for the qualification Master of Pharmacy (Pharmacy Practice/Pharmaco-economics), comprising modules with a total credit value of 192 credits as approved by the Senate shall extend over four semesters of full-time study and research, or eight semesters part-time.

a) All modules in the curriculum shall be compulsory.
b) All coursework modules need to be completed before registration for the Research Project.
Curriculum for Masters in Pharmacy – On-line (MMSHSC)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
<th>Credits</th>
<th>Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLSC8H1</td>
<td>Basic Epidemiology</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC8H2</td>
<td>Introduction to Biostatistical Concepts</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>HLSC8H3</td>
<td>Research Methods and Design</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>HLSC8H4</td>
<td>Evidence Based Practice</td>
<td>16</td>
<td>2</td>
</tr>
<tr>
<td>PHRM811</td>
<td>Research Project</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>PHRM812</td>
<td>Research Project – subsequent year</td>
<td>96</td>
<td>1 &amp; 2</td>
</tr>
<tr>
<td>OR</td>
<td>Pharmacoeconomic Stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHRM8PP</td>
<td>Introduction to Pharmacoeconomic Principles</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHRM8PC</td>
<td>Application of Pharmacoeconomic Concepts</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>OR</td>
<td>Pharmacy Practice Stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHRM8PR</td>
<td>Clinical Service Development and Evaluation</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>PHRM8PT</td>
<td>Rational Drug Use</td>
<td>16</td>
<td>1</td>
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<tr>
<td></td>
<td>Total credits for the degree</td>
<td>192</td>
<td></td>
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</table>

CHS - PHRM 3 Eligibility: Master of Pharmacy
Candidates are eligible to apply for selection to register for the qualification Master of Pharmacy provided they have a Bachelor of Pharmacy.

CHS - PHRM 4 Specialization within Master of Pharmacy
Students may register for a Research Masters in Pharmaceutics, Pharmacy Practice, Pharmaceutical Chemistry or Pharmacology.

CHS - PHRM 5 Eligibility: Master of Medical Science (Pharmacology)
Candidates are eligible to apply for selection to register for the qualification of Master of Medical Science (Pharmacology) provided they have a
a) Bachelor of Pharmacy qualification, or
b) MBChB qualification, or
c) Bachelor of Medical Science in Human Physiology qualification.

Curriculum for Master of Pharmacy – Research (M-PHAR) (M-MDSC)

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM8AY</td>
<td>Research Masters in Pharmaceutics</td>
</tr>
<tr>
<td>PHRM8C2</td>
<td>Masters Research in Pharmaceutics Continuing</td>
</tr>
<tr>
<td>PHRM8BY</td>
<td>Research Masters in Pharmaceutics subsequent year</td>
</tr>
</tbody>
</table>
Master of Physiotherapy

CHS - PHTHM 1 Eligibility: Master of Physiotherapy
Candidates are eligible to apply for selection to register for the qualification Master of Physiotherapy provided they have a Bachelor of Physiotherapy qualification.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHTH8FY</td>
<td>Masters Research in Physiotherapy</td>
</tr>
<tr>
<td>PHTH8CY</td>
<td>Masters Research in Physiotherapy Continuing</td>
</tr>
<tr>
<td>PHTH8SY</td>
<td>Masters Research in Physiotherapy Subsequent Year/s</td>
</tr>
</tbody>
</table>

Master of Public Health

CHS - MPH 1 Eligibility: Master of Public Health
Candidates are eligible to apply for selection to register provided that they hold:
  a) a four-year Bachelor’s degree or honours degree in a health or related social science discipline;
  b) or a Postgraduate Diploma in Public Health and,
  c) at least a minimum of 1 year of relevant clinical experience in the health or social sector (post community service).
In addition to the format prescribed by Rule CR13, the format of dissertation may comprise an introductory chapter, a literature review, a publishable paper, a discussion, and appendices comprising at least: the original research proposal, additional results not reported in the paper, guidelines to authors of the journal in which the student intends to publish, and copy of ethics and higher education committee approvals.

CHS - MPH 3 Curriculum

a) The curriculum shall carry at least 192 credits, comprising compulsory ("core") modules, and elective modules chosen by the candidate and approved by the Programme Director, and a research project, which shall contribute 96 credits.
b) The approved core and elective modules are those listed in table below.
c) Not every elective module listed in Tables PBHL-b, will necessarily be offered every year.
d) There shall be no specialization in a particular field.
e) Credit shall not be granted for for modules that have been successfully completed while registered for the Postgraduate Diploma.

Master of Sport Science

CHS - SPSCM 1 Eligibility: Master of Sport Science by research

Candidates are eligible to apply for selection to register for the qualification of Master of Sport Science by research provided they have a Bachelor of Sport Science Honours qualification.
### Curriculum for Master of Sport Science (MSPS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSBR8FY</td>
<td>Masters Research in Sport Science</td>
</tr>
<tr>
<td>SSBR8CY</td>
<td>Masters Research in Sport Science continuing</td>
</tr>
<tr>
<td>SSBR8SY</td>
<td>Masters Research in Sport Science Subsequent Year</td>
</tr>
</tbody>
</table>

### Master of Philosophy in Group Therapy

**CHS - GRTH1 Eligibility: Master of Philosophy in Group Therapy**

Candidates are eligible to apply for selection to register for the qualification Master of Philosophy in Group Therapy provided they have a

- a) i) Bachelor of Occupational Therapy, or
  ii) Master of Psychology, or
  iii) Medical specialization and registration as a Psychiatrist, or
  iv) Bachelor of Nursing, or
  v) Bachelor of Social Science (Social Work), and a
- b) Minimum of one year’s relevant experience in group therapy, and
- c) Access to e-mail and the internet due to the structure and nature of the programme.
- d) Portfolio of evidence
- e) Must be registered with HPCSA or OT Board

**CHS - GRTH 2 Curriculum for the Master of Philosophy in Group Therapy by course work**

The curriculum for the qualification Master of Philosophy in Group Therapy, comprising modules with a total credit value of not less than 192 credits as approved by the Senate, shall extend four semesters of full-time study and research, or eight semesters part-time

<table>
<thead>
<tr>
<th>Curriculum for Master of Philosophy in Group Therapy (MPHGTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>YEAR 1</td>
</tr>
<tr>
<td>SAOS801</td>
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<tr>
<td>SAOS802</td>
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<td>SAOS800</td>
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<td>SAOS803</td>
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<td>SAOS804</td>
</tr>
<tr>
<td>YEAR 2</td>
</tr>
<tr>
<td>OCTH816</td>
</tr>
<tr>
<td>OCTH806</td>
</tr>
<tr>
<td>OCTH807</td>
</tr>
</tbody>
</table>
Doctoral Degrees

Anaesthetics

CHS-ANAED 1 Eligibility for Doctor of Philosophy in Anaesthetics
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Anaesthetics provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAE9F1</td>
<td>PhD research in Anaesthetics</td>
</tr>
<tr>
<td>ANAE9YS</td>
<td>PhD research in Anaesthetics</td>
</tr>
<tr>
<td>ANAE9CY</td>
<td>PhD research in Anaesthetics</td>
</tr>
<tr>
<td>ANAE91P</td>
<td>PhD Anaesthetics P/T Yr1</td>
</tr>
<tr>
<td>ANAE92P</td>
<td>PhD Anaesthetics P/T Yr2</td>
</tr>
</tbody>
</table>

Anatomical Pathology

CHS - ANAPD 1 Eligibility for Doctor of Philosophy in Anatomical Pathology
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Anatomical Pathology provided they have obtained a relevant Masters degree in Anatomical Pathology or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAP9F1</td>
<td>PhD research in Anatomical Pathology</td>
</tr>
<tr>
<td>ANAP9CY</td>
<td>PhD research in Anatomical Pathology</td>
</tr>
<tr>
<td>ANAP9YS</td>
<td>PhD research in Anatomical Pathology</td>
</tr>
<tr>
<td>ANAP9P1</td>
<td>PhD research in Anatomical Pathology</td>
</tr>
<tr>
<td>ANAP9P2</td>
<td>PhD research in Anatomical Pathology</td>
</tr>
</tbody>
</table>

Anatomy

CHS - ANATD 1 Eligibility for Doctor of Philosophy in Anatomy
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Anatomy provided they have obtained a relevant Masters degree in Anatomy or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT9F1</td>
<td>PhD research in Anatomy</td>
</tr>
</tbody>
</table>
Audiology

CHS - AUDOD 1 Eligibility: Doctor of Philosophy (Audiology)
Candidates are eligible to apply for selection to register for the qualification Doctor of Philosophy (Audiology) provided they have a Master of Communication Pathology (Audiology)

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPAU91Y</td>
<td>PhD Research in Communication Pathology – Audiology</td>
</tr>
<tr>
<td>CPAU92Y</td>
<td>PhD Research in Communication Pathology – Audiology subsequent year</td>
</tr>
<tr>
<td>CPAU9CY</td>
<td>PhD Research in Communication Pathology – Audiology continuing</td>
</tr>
</tbody>
</table>

Behavioural Medicine

CHS - BHMED 1 Eligibility for Doctor of Philosophy in Behavioural Medicine
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Behavioural Medicine provided they have obtained a relevant Master’s degree or an appropriate professional qualification deemed appropriate by the school.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHME9FY</td>
<td>PhD Behavioural Medicine</td>
</tr>
<tr>
<td>BHME9CY</td>
<td>PhD Behavioural Medicine Continuing</td>
</tr>
<tr>
<td>BHME9S1</td>
<td>PhD Behavioural Medicine Subsequent Year</td>
</tr>
<tr>
<td>BHME91P</td>
<td>PhD Behavioural Medicine P/T Yr 1</td>
</tr>
<tr>
<td>BHME92P</td>
<td>PhD Behavioural Medicine P/T Yr 2</td>
</tr>
</tbody>
</table>

Cardiology

CHS - CARDD 1 Eligibility for Doctor of Philosophy in Cardiology
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Cardiology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARD9F1</td>
<td>PhD research in Cardiology</td>
</tr>
<tr>
<td>CARD9CY</td>
<td>PhD research in Cardiology continuing</td>
</tr>
<tr>
<td>CARD9YS</td>
<td>PhD research in Cardiology subsequent year</td>
</tr>
</tbody>
</table>
Cardiothoracic Surgery

CHS - CSURD 1 Eligibility for Doctor of Philosophy Cardiothoracic Surgery

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Cardiothoracic Surgery provided they have obtained a relevant Master's degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSUR91F</td>
<td>PhD research in Cardiothoracic Surgery</td>
</tr>
<tr>
<td>CSUR9CY</td>
<td>PhD research in Cardiothoracic Surgery continuing</td>
</tr>
<tr>
<td>CSUR9SY</td>
<td>PhD research in Cardiothoracic Surgery subsequent year</td>
</tr>
<tr>
<td>CSUR91P</td>
<td>PhD research in Cardiothoracic Surgery Part-time Y1</td>
</tr>
<tr>
<td>CSUR92P</td>
<td>PhD research in Cardiothoracic Surgery Part-time Y2</td>
</tr>
</tbody>
</table>

Dermatology

CHS - DERMD 1 Eligibility for Doctor of Philosophy Dermatology

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Dermatology provided they have obtained a relevant Master's degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DERM9F1</td>
<td>PhD research in Dermatology</td>
</tr>
<tr>
<td>DERM9CY</td>
<td>PhD research in Dermatology continuing</td>
</tr>
<tr>
<td>DERM9YS</td>
<td>PhD research in Dermatology subsequent year</td>
</tr>
<tr>
<td>DERM9P1</td>
<td>PhD research in Dermatology Part-time Y1</td>
</tr>
<tr>
<td>DERM9P2</td>
<td>PhD research in Dermatology Part-time Y2</td>
</tr>
</tbody>
</table>

Emergency Medicine

CHS - EMERD 1 Eligibility for Doctor of Philosophy in Emergency Medicine

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Emergency Medicine provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMER9F1</td>
<td>PhD research in Emergency Medicine</td>
</tr>
<tr>
<td>EMER9CY</td>
<td>PhD research in Emergency Medicine continuing</td>
</tr>
</tbody>
</table>
Family Medicine

CHS - FAMED 1 Eligibility for Doctor of Philosophy in Family Medicine
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Family Medicine provided they have obtained a relevant Masters degree or a professional qualification deemed appropriate by the School.

| Curriculum for Doctor of Philosophy – Family Medicine (PHDMD) |
|------------------|------------------|
| Code             | Name of Module   |
| FAME9FY          | PhD Family Medicine year 1 |
| FAME9YS          | PhD Family Medicine subsequent year |
| FAME9CY          | PhD Family Medicine continuing Year |

Forensic Medicine

CHS – FOMED 1 Eligibility: Doctor of Philosophy in Forensic Medicine
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Forensic Medicine provided they have a Masters degree or qualify under GR7.

| Curriculum for Doctor of Philosophy – Forensic Medicine (PHDMD) |
|------------------|------------------|
| Code             | Module name      |
| FOME9F1          | PhD research in Forensic Medicine |
| FOME9CY          | PhD research in Forensic Medicine continuing |
| FOME9SY          | PhD research in Forensic Medicine subsequent year |
| FOME9P1          | PhD research in Forensic Medicine Part-time year 1 |
| FOME9P2          | PhD research in Forensic Medicine Part-time year 2 |

Haematology

CHS – HAEMD 1 Eligibility: Doctor of Philosophy in Haematology
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Haematology provided they have a Masters degree or qualify under GR7.

| Curriculum for Doctor of Philosophy – Haematology (PHDMD) |
|------------------|------------------|
| Code             | Module name      |
| HAEM91F          | PhD research in Haematology |
| HAEM9CY          | PhD research in Haematology continuing |
HAEM9SY | PhD research in Haematology subsequent year
HAEM91P | PhD research in Haematology part-time year 1
HAEM92P | PhD research in Haematology part-time year 2

**Medical Biochemistry**

**CHS - HMBCD 1 Eligibility: Doctor of Philosophy in Medical Biochemistry**

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Medical Biochemistry provided they have a Masters degree or qualify under GR7.

<table>
<thead>
<tr>
<th>Curriculum for Doctor of Philosophy – Medical Biochemistry (PHD-HS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>HMBC91F</td>
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<td>HMBC9CY</td>
</tr>
<tr>
<td>HMBC9YS</td>
</tr>
<tr>
<td>HMBC91P</td>
</tr>
<tr>
<td>HMBC92P</td>
</tr>
</tbody>
</table>

**Medical Microbiology**

**CHS – MedMicroD 1: Eligibility: Doctor of Philosophy in Medical Microbiology**

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Medical Microbiology provided they have obtained a relevant Masters degree or qualify under GR7.

<table>
<thead>
<tr>
<th>Curriculum for Doctor of Philosophy – Medical Microbiology (PHDMD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>MMY9F1</td>
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<td>MMY9CY</td>
</tr>
<tr>
<td>MMY9YS</td>
</tr>
<tr>
<td>MMY9P1</td>
</tr>
<tr>
<td>MMY9P2</td>
</tr>
</tbody>
</table>

**Medicine**

**CHS - MEDID 1 Eligibility for Doctor of Philosophy in Medicine**

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Medicine provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Curriculum for Doctor of Philosophy – Medicine (PHDMD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>MEDI9F1</td>
</tr>
<tr>
<td>MEDI9CY</td>
</tr>
<tr>
<td>MEDI9YS</td>
</tr>
<tr>
<td>MEDI91P</td>
</tr>
<tr>
<td>MEDI92P</td>
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</tbody>
</table>
Neurology

CHS - NEURD 1 Eligibility for Doctor of Philosophy in Neurology
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Neurology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR9F1</td>
<td>PhD research in Neurology</td>
</tr>
<tr>
<td>NEUR9CY</td>
<td>PhD research in Neurology continuing</td>
</tr>
<tr>
<td>NEUR9YS</td>
<td>PhD research in Neurology subsequent year</td>
</tr>
<tr>
<td>NEUR9P1</td>
<td>PhD research in Neurology Part-time Y1</td>
</tr>
<tr>
<td>NEUR9P2</td>
<td>PhD research in Neurology Part-time Y2</td>
</tr>
</tbody>
</table>

Neurosurgery

CHS - NSURD 1 Eligibility for Doctor of Philosophy in Neurosurgery
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Neurosurgery provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>NSUR9F1</td>
<td>PhD research in Neurosurgery</td>
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<tr>
<td>NSUR9CY</td>
<td>PhD research in Neurosurgery continuing</td>
</tr>
<tr>
<td>NSUR9YS</td>
<td>PhD research in Neurosurgery subsequent year</td>
</tr>
<tr>
<td>NSUR9P1</td>
<td>PhD research in Neurosurgery Part-time Y1</td>
</tr>
<tr>
<td>NSUR9P2</td>
<td>PhD research in Neurosurgery Part-time Y2</td>
</tr>
</tbody>
</table>

Nursing

CHS - NURD 1 Eligibility for Doctor of Philosophy in Nursing
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Nursing provided they have obtained a relevant Masters degree or a professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
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</thead>
<tbody>
<tr>
<td>NURS91Y</td>
<td>PhD Nursing year 1</td>
</tr>
<tr>
<td>NURS92Y</td>
<td>PhD Nursing subsequent year</td>
</tr>
<tr>
<td>NURS9CY</td>
<td>PhD Nursing continuing</td>
</tr>
</tbody>
</table>
Obstetrics and Gynaecology

CHS - OBGYD 1 Eligibility for Doctor of Philosophy in Obstetrics and Gynaecology

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Obstetrics and Gynaecology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Name</th>
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</thead>
<tbody>
<tr>
<td>OBGY9F1</td>
<td>PhD research in Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>OBGY9CY</td>
<td>PhD research in Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>OBGY9YS</td>
<td>PhD research in Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>OBGY9P1</td>
<td>PhD research in Obstetrics and Gynaecology</td>
</tr>
<tr>
<td>OBGY9P2</td>
<td>PhD research in Obstetrics and Gynaecology</td>
</tr>
</tbody>
</table>

Occupational and Environmental Health

CHS - OCEHD1 Eligibility for Doctor of Philosophy Occupational and Environmental Health

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Occupational & Environmental Health provided they have obtained a relevant Master’s degree or an appropriate professional qualification deemed appropriate by the school.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Name</th>
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</thead>
<tbody>
<tr>
<td>OCEH9FY</td>
<td>PhD Occup &amp; Envir Health</td>
</tr>
<tr>
<td>OCEH9CY</td>
<td>PhD Occup &amp; Envir Health Continuing</td>
</tr>
<tr>
<td>OCEH9YS</td>
<td>PhD Occup &amp; Envir Health Subsequent Year</td>
</tr>
<tr>
<td>OCEH91P</td>
<td>PhD Occup &amp; Envir Health P/T Yr 1</td>
</tr>
<tr>
<td>OCEH92P</td>
<td>PhD Occup &amp; Envir Health P/T Yr 2</td>
</tr>
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</table>

Occupational Therapy

CHS - OCTHD 1 Eligibility: Doctor of Philosophy (Occupational Therapy)

Candidates are eligible to apply for selection to register for the qualification Doctor of Philosophy in Occupational Therapy provided they have a Master of Occupational Therapy.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTH91Y</td>
<td>PhD Research in Occupational Therapy</td>
</tr>
<tr>
<td>OCTH92Y</td>
<td>PhD Research in Occupational Therapy subsequent year</td>
</tr>
<tr>
<td>OCTH9CY</td>
<td>PhD Research in Occupational Therapy continuing</td>
</tr>
</tbody>
</table>
Ophthalmology

CHS - OPTHD 1 Eligibility for Doctor of Philosophy in Ophthalmology

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Ophthalmology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>OPTH91F</td>
<td>PhD research in Ophthalmology</td>
</tr>
<tr>
<td>OPTH91CY</td>
<td>PhD research in Ophthalmology continuing</td>
</tr>
<tr>
<td>OPTH91S</td>
<td>PhD research in Ophthalmology subsequent year</td>
</tr>
<tr>
<td>OPTH91P</td>
<td>PhD research in Ophthalmology Part-time Y1</td>
</tr>
<tr>
<td>OPTH92P</td>
<td>PhD research in Ophthalmology Part-time Y2</td>
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</table>

Optics and Imaging

CHS - OPTCD 1 Eligibility for Doctor of Philosophy in Optics and Imaging

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Optometry provided they have a Master of Optometry qualification.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>OPTC9F1</td>
<td>PhD research in Optics and Imaging</td>
</tr>
<tr>
<td>OPTC9CY</td>
<td>PhD research in Optics and Imaging continuing</td>
</tr>
<tr>
<td>OPTC9YS</td>
<td>PhD research in Optics and Imaging subsequent year</td>
</tr>
<tr>
<td>OPTC91P</td>
<td>PhD research in Optics and Imaging part-time year 1</td>
</tr>
<tr>
<td>OPTC92P</td>
<td>PhD research in Optics and Imaging part-time year 2</td>
</tr>
</tbody>
</table>

Optometry

CHS - OPTMD 1 Eligibility: Doctor of Philosophy in Optometry

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Optometry provided they have obtained a relevant Master degree or an appropriate qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTM91Y</td>
<td>PhD Research in Optometry</td>
</tr>
<tr>
<td>OPTM92Y</td>
<td>PhD Research in Optometry subsequent year</td>
</tr>
<tr>
<td>OPTM9CY</td>
<td>PhD Research in Optometry continuing</td>
</tr>
</tbody>
</table>
Orthopaedic Surgery

CHS - ORPSD 1 Eligibility for Doctor of Philosophy in Orthopaedic Surgery

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Orthopaedic Surgery provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>ORPS91F</td>
<td>PhD research in Orthopaedic Surgery</td>
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<tr>
<td>ORPS9CY</td>
<td>PhD research in Orthopaedic Surgery continuing</td>
</tr>
<tr>
<td>ORPS9YS</td>
<td>PhD research in Orthopaedic Surgery subsequent year</td>
</tr>
<tr>
<td>ORPS9P1</td>
<td>PhD research in Orthopaedic Surgery Part-time Y1</td>
</tr>
<tr>
<td>ORPS9P2</td>
<td>PhD research in Orthopaedic Surgery Part-time Y2</td>
</tr>
</tbody>
</table>

Otorhinolaryngology

CHS - OHLYD 1 Eligibility for Doctor of Philosophy in Otorhinolaryngology

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Otorhinolaryngology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>OHLY91F</td>
<td>PhD research in Otorhinolaryngology</td>
</tr>
<tr>
<td>OHLY9CY</td>
<td>PhD research in Otorhinolaryngology continuing</td>
</tr>
<tr>
<td>OHLY9SY</td>
<td>PhD research in Otorhinolaryngology subsequent year</td>
</tr>
<tr>
<td>OHLY91P</td>
<td>PhD research in Otorhinolaryngology Part-time Y1</td>
</tr>
<tr>
<td>OHLY92P</td>
<td>PhD research in Otorhinolaryngology Part-time Y2</td>
</tr>
</tbody>
</table>

Paediatrics and Child Health

CHS-PAEDD 1 Eligibility for Doctor of Philosophy in Paediatrics and Child Health

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Paediatrics and Child Health provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>PAED9F1</td>
<td>PhD research in Paediatrics and Child Health</td>
</tr>
<tr>
<td>PAED9CY</td>
<td>PhD research in Paediatrics and Child Health</td>
</tr>
<tr>
<td>PAED9TS</td>
<td>PhD research in Paediatrics and Child Health subsequent year</td>
</tr>
<tr>
<td>PAED9T1</td>
<td>PhD research in Paediatrics and Child Health Part-time Y1</td>
</tr>
<tr>
<td>PAED9T2</td>
<td>PhD research in Paediatrics and Child Health Part-time Y2</td>
</tr>
</tbody>
</table>
Paediatric Surgery

CHS-PSGYD 1 Eligibility for Doctor of Philosophy in Paediatric Surgery

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Paediatric Surgery provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>PSGY9T1</td>
<td>PhD research in Paediatric Surgery</td>
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<tr>
<td>PSGY9CY</td>
<td>PhD research in Paediatric Surgery continuing</td>
</tr>
<tr>
<td>PSGY9T2</td>
<td>PhD research in Paediatric Surgery subsequent year</td>
</tr>
<tr>
<td>PSGY9P1</td>
<td>PhD research in Paediatric Surgery Part-time Y1</td>
</tr>
<tr>
<td>PSGY9P2</td>
<td>PhD research in Paediatric Surgery Part-time Y2</td>
</tr>
</tbody>
</table>

Pharmaceutical Sciences

CHS - PHRMD 1 Eligibility: Doctor of Philosophy

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy provided they have a Master of Pharmacy.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
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</thead>
<tbody>
<tr>
<td>PHRM9MY</td>
<td>PhD Research in Pharmaceutics</td>
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<tr>
<td>PHRM9NY</td>
<td>PhD Research in Pharmaceutics subsequent year</td>
</tr>
<tr>
<td>PHRM91Y</td>
<td>PhD Research in Pharmaceutics continuing</td>
</tr>
<tr>
<td>PHRM9OY</td>
<td>PhD Research in Pharmacy</td>
</tr>
<tr>
<td>PHRM9PY</td>
<td>PhD Research in Pharmacy subsequent year</td>
</tr>
<tr>
<td>PHRM92Y</td>
<td>PhD Research in Pharmacy continuing</td>
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<tr>
<td>PHRM9QY</td>
<td>PhD Research in Pharmacology</td>
</tr>
<tr>
<td>PHRM9RY</td>
<td>PhD Research in Pharmacology subsequent year</td>
</tr>
<tr>
<td>PHRM93Y</td>
<td>PhD Research in Pharmacology continuing</td>
</tr>
<tr>
<td>PHRM9TY</td>
<td>PhD Research in Pharmaceutical Chemistry</td>
</tr>
<tr>
<td>PHRM9UY</td>
<td>PhD Research in Pharmaceutical Chemistry subsequent year</td>
</tr>
<tr>
<td>PHRM94Y</td>
<td>PhD Research in Pharmaceutical Chemistry continuing</td>
</tr>
<tr>
<td>PHRM9P1</td>
<td>PhD Research in Pharmacy Practice</td>
</tr>
<tr>
<td>PHRM9P2</td>
<td>PhD Research in Pharmacy Practice subsequent year</td>
</tr>
<tr>
<td>PHRM9PC</td>
<td>PhD Research in Pharmacy Practice continuing</td>
</tr>
</tbody>
</table>
Physiology

CHS-PHYSD 1 Eligibility: Doctor of Philosophy in Physiology
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Physiology provided they have a Masters degree or qualify under GR7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>HPHS9F1</td>
<td>PhD research in Physiology</td>
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<tr>
<td>HPHS9CY</td>
<td>PhD research in Physiology continuing</td>
</tr>
<tr>
<td>HPHS9YS</td>
<td>PhD research in Physiology subsequent year</td>
</tr>
<tr>
<td>HPHS91P</td>
<td>PhD research in Physiology Part-time Y1</td>
</tr>
<tr>
<td>HPHS92P</td>
<td>PhD research in Physiology Part-time Y2</td>
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</table>

Physiotherapy

CHS - PHTHD 1 Eligibility: Doctor of Philosophy (Physiotherapy)
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy (Physiotherapy) provided they have a Master of Physiotherapy.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
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<tbody>
<tr>
<td>PHTH91Y</td>
<td>PhD Research in Physiotherapy</td>
</tr>
<tr>
<td>PHTH92Y</td>
<td>PhD Research in Physiotherapy subsequent year</td>
</tr>
<tr>
<td>PHTH9CY</td>
<td>PhD Research in Physiotherapy continuing</td>
</tr>
</tbody>
</table>

Plastic and Reconstructive Surgery

CHS-PLRSD 1 Eligibility for Doctor of Philosophy in Plastic and Reconstructive Surgery
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Plastic and Reconstructive Surgery provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
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<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>PLRS9F1</td>
<td>PhD research in Plastic and Reconstructive Surgery</td>
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<td>PLRS9CY</td>
<td>PhD research in Plastic and Reconstructive Surgery continuing</td>
</tr>
<tr>
<td>PLRS9YS</td>
<td>PhD research in Plastic and Reconstructive Surgery subsequent year</td>
</tr>
<tr>
<td>PLRS9P1</td>
<td>PhD research in Plastic and Reconstructive Surgery Part-time Y1</td>
</tr>
<tr>
<td>PLRS9P2</td>
<td>PhD research in Plastic and Reconstructive Surgery Part-time Y2</td>
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</table>
Psychiatry

**CHS-PSYTD 1 Eligibility for Doctor of Philosophy in Psychiatry**
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Psychiatry provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>PSYT9F1</td>
<td>PhD research in Psychiatry</td>
</tr>
<tr>
<td>PSTY9CY</td>
<td>PhD research in Psychiatry continuing</td>
</tr>
<tr>
<td>PSYT9YS</td>
<td>PhD research in Psychiatry subsequent year</td>
</tr>
<tr>
<td>PSTY9P1</td>
<td>PhD research in Psychiatry Part-time Y1</td>
</tr>
<tr>
<td>PSTY9P2</td>
<td>PhD research in Psychiatry Part-time Y1</td>
</tr>
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</table>

Radiology

**CHS-RADID 1 Eligibility for Doctor of Philosophy in Radiology**
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Radiology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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</thead>
<tbody>
<tr>
<td>RADI9F1</td>
<td>PhD research in Radiology</td>
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<tr>
<td>RADI9CY</td>
<td>PhD research in Radiology continuing</td>
</tr>
<tr>
<td>RADI9YS</td>
<td>PhD research in Radiology subsequent year</td>
</tr>
<tr>
<td>RADI9P1</td>
<td>PhD research in Radiology Part-time Y1</td>
</tr>
<tr>
<td>RADI9P2</td>
<td>PhD research in Radiology Part-time Y2</td>
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</table>

Radiotherapy and Oncology

**CHS-RADID 1 Eligibility for Doctor of Philosophy in Radiotherapy and Oncology**
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Radiotherapy and Oncology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
<th>Module name</th>
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<tbody>
<tr>
<td>RTPY9F1</td>
<td>PhD research in Radiotherapy &amp; Oncology</td>
</tr>
<tr>
<td>RTPY9CY</td>
<td>PhD research in Radiotherapy &amp; Oncology continuing</td>
</tr>
<tr>
<td>RTPY9SY</td>
<td>PhD research in Radiotherapy &amp; Oncology subsequent year</td>
</tr>
<tr>
<td>RTPY9P1</td>
<td>PhD research in Radiotherapy &amp; Oncology Part-time Y1</td>
</tr>
<tr>
<td>RTPY9P2</td>
<td>PhD research in Radiotherapy &amp; Oncology Part-time Y2</td>
</tr>
</tbody>
</table>
Speech-Language Pathology

CHS - SPLPD 1 Eligibility: Doctor of Philosophy (Speech-Language Pathology)
Candidates are eligible to apply for selection to register for the qualification Doctor of Philosophy (Speech-Language Pathology) provided they have a Master of Communication Pathology (Speech-Language Pathology).

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
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</thead>
<tbody>
<tr>
<td>CPSL91Y</td>
<td>PhD Research in Communication Pathology – Speech-Language Pathology</td>
</tr>
<tr>
<td>CPSL92Y</td>
<td>PhD Research in Communication Pathology – Speech-Language Pathology subsequent year</td>
</tr>
<tr>
<td>CPSL9CY</td>
<td>PhD Research in Communication Pathology – Speech-Language Pathology continuing</td>
</tr>
</tbody>
</table>

Sport Science

CHS - SPSCD 1 Admission Doctor of Philosophy in Sport Science
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy (Sport Science) provided they have a Master of Sport Science qualification.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSBR91Y</td>
<td>PhD Research in Sport Science</td>
</tr>
<tr>
<td>SSBR92Y</td>
<td>PhD Research in Sport Science subsequent year</td>
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<tr>
<td>SSBR9CY</td>
<td>PhD Research in Sport Science continuing</td>
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</tbody>
</table>

Surgery

CHS-SURGD 1 Eligibility for Doctor of Philosophy in Surgery
Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Surgery provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
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<td>PhD research in Surgery</td>
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<td>SURG9CY</td>
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<td>SURG9T2</td>
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<td>SURG9P1</td>
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<td>SURG9P2</td>
<td>PhD research in Surgery (Part-time Y2)</td>
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TeleHealth

CHS - TELED 1 Eligibility for Doctor of Philosophy in TeleHealth

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in TeleHealth provided they have obtained a relevant Masters degree or a professional qualification deemed appropriate by the School.

<table>
<thead>
<tr>
<th>Curriculum for Doctor of Philosophy – TeleHealth (PHDMD)</th>
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<td>INFT92Y</td>
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<td>INFT9CY</td>
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Urology

CHS- UROLD 1 Eligibility for Doctor of Philosophy in Urology

Candidates are eligible to apply for selection to register for the qualification of Doctor of Philosophy in Urology provided they have obtained a relevant Masters degree or an appropriate professional qualification deemed appropriate by the School.

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<th>Curriculum for Doctor of Philosophy – Urology (PHDMD)</th>
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Virology

CHS - VIGYID 1 Eligibility for Doctor of Philosophy in Virology

Candidates are eligible to apply for selection to register for the qualification Doctor of Philosophy in Virology provided they have obtained a relevant Masters degree or an appropriate qualification deemed appropriate by the School.

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<tr>
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Anaesthetics

Anaesthetics Clinical and Prof Prac 1
ANAE8A5 MC

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

Content: Physiology, Pharmacology, Physics, Clinical Measurement, Data Management, Clinical Chemistry, Anatomy, Pathology, in-service clinical training (at least two semesters in a facility approved by the HPCSA).

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written papers in each of the following: Physiology and chemical pathology, pharmacology, physics and the principles of clinical measurement and data management. Candidates must pass each subject by obtaining a combined mark of 50% for the two papers in each subject.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Anaesthetics Clinical and Prof Prac 2
ANAE8A6 MC

Prerequisite Requirement: None
Prerequisite Modules: ANAE8A5
Corequisite: None

Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist anaesthesiologist and thus render the student eligible for registration with the HPCSA in the specialist category.

Content: The history, principles and practice of anaesthesiology and analgesia, including pre-operative evaluation and preparation and post-operative care. Clinical medicine and surgery related to the practice of anaesthesiology.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written – Three written papers of 3 hours duration each; Oral examination consisting of four parts; Clinical examination consisting of two cases. Weighting of the components of the examination is: Paper 1 – 18 %, Paper 2 – 18%, Paper 3 – 18%, Oral –20%, Clinical – 26%.
Candidates must obtain a calibrated average mark ≥ 50% for the written, clinical and oral combined, to pass the examination overall.

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory maintenance of a portfolio.

**Anatomical Pathology**

**A Path Clin & Prof Practice 1**
ANAP8B2 MC

**Prerequisite Requirement:** None
**Prerequisite Modules:** None
**Corequisite:** None

**Aim:** To provide registrars with a sound grounding in basic sciences underlying the theory and practice of Anatomical Pathology, to introduce them to the practice of this specialty and strengthen their grasp of professional ethics and professional behaviour.

**Content:** Principles relating to Anatomical Pathology.

**Practicals:** None

**Assessment:** Formative: All continuous assessments are formative only. Professional portfolio submitted prior to FCPath (SA) Anat Part II. Summative: At the end of the module, students do one three-hour written paper (sub-minimum 45%) and one practical examination (sub-minimum 50%). Each component has to be passed separately. Practical examination also includes a surgical pathology slide sub-minimum. Candidate must pass at least 12 of 15 cases. (100%)

**DP Requirement:** Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

**A Path Clin & Prof Practice 2**
ANAP8B3 MC

**Prerequisite Requirement:** None
**Prerequisite Modules:** ANAP8B2
**Corequisite:** None

**Aim:** The aim of the module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of clinical virology at a specialist level without supervision.

**Content:** Diagnostic surgical and autopsy pathology and cytopathology. Basic pathological processes at systemic, cellular and molecular level. Ultra-structural morphology of organic and functional disease processes. Special techniques used in investigation and diagnosis. Post mortem training for Anatomical Pathology registrars will include rotations in forensic medicine.

**Practicals:** None

**Assessment:** All continuous assessments are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written papers and five clinical examinations. All components have a sub-minimum of 45 or 50% respectively (100%)

**DP Requirement:** Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

**Anatomy**

**Introduction to Anatomy & Neuroanatomy**
ANAT101 W1

**Aim:** The student will be able to identify structures in the following systems: nervous, cardiovascular, musculoskeletal, respiratory, gastrointestinal, endocrine and urogenital. In addition, he/she will be able to identify the following neuroanatomical structures viz. skull, meninges, venous sinuses, spinal cord, cranial nerves, ventricles, cerebellum, brainstem

**Content:** Lectures: There are 24 lectures on Introduction to Anatomy and 24 lectures on Neuroanatomy. Practicals: Study of prosections supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge
**Assessment:** 2 Class tests are in the form of written papers, 2 practicals (spotters) and orals (viva voce). A seminar test in the form of a written paper is held on completion of all the seminars at the end of the semester.

**DP Requirement:** For students to sit for the final examination in the module, a CAM of 40% or more is required. This module has a lecture, practical, tutorial and seminar content that is specially designed for BPhysio, BOccTh & BPharm.

**Head, Neck & Back**

**ANAT102 W2**

**Aim:** On completion of the module, the learner will be able to know the detailed anatomy of the back (including the suboccipital region) and have a fair understanding of the anatomy of structures in the head and neck.

**Content:**
- Head and Neck: To expose students to structures in the region - it includes arteries, nerves, veins, lymphatics and muscles in the region, the mouth, tongue, palate, pharynx, larynx, the orbit and structures within, the nose and paranasal air sinuses, the ear and glandular structures.
- Back: A detailed study of back muscles, and of bones, joints and ligaments of the vertebral column and a detailed study of the suboccipital triangle.

**Practicals:** Study of prosected material

**Assessment:** 2 Class tests are in the form written papers, 2 practicals (spotters) and orals (viva voce). No subminimum applies to any of the papers. CAM: An average of all marks of all class tests. Exam marks: An average of all the marks of the different components of that exam Final marks: ¼ of CAM + ¾ of Exam Mark. Minimum mark required to qualify for supplementary examinations: CAM greater than 60 or Final Mark equal to or greater than 40

**DP Requirement:** CAM of 40% or more is required.

This module has a lecture, practical, tutorial and seminar content that is specially designed for Physiotherapy & Occupational Therapy.

**Introduction to Anatomy & Neuroanatomy**

**ANAT103 W1**

**Aim:** The learner will have knowledge of the subject matter contained in the syllabus. He/she will be able to identify structures in the following systems: nervous, cardiovascular, musculoskeletal, respiratory, gastrointestinal, endocrine and urogenital. In addition, he/she will be able to identify the following neuroanatomical structures viz. skull, meninges, venous sinuses, spinal cord, cranial nerves, ventricles, cerebellum, brainstem.

**Content:**
- Lectures: There are 24 lectures on Introduction to Anatomy and 24 lectures on Neuroanatomy.
- Practicals: Study of prosected material supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge.

**Assessment:** 2 Class tests are in the form written papers, 2 practicals (spotters) and orals (viva voce). A seminar test in the form of a written paper is held on completion of all the seminars at the end of the semester.

**DP Requirement:** CAM of 40% or more is required.

This module has a lecture, practical, tutorial and seminar content that is specially designed for BOptom.

**Trunk & Embryology**

**ANAT104 W1**

**Aim:** The learner will have knowledge of the subject matter contained in the syllabus. He/she will be able to dissect, identify and display the wall of the trunk and the anatomy of all the relevant viscera contained within.

**Content:**
- There are 24 lectures in the module, 16 on the trunk and 6 on embryology. They are scheduled to synchronise with dissection of the cadaver. In addition tutorials and seminars clarify the subject.

**Assessment:** 2 Class tests are in the form written papers, 2 practicals (spotters) and orals (viva voce). A seminar test in the form of a written paper is held on completion of all the seminars at the end of the semester.

**DP Requirement:** CAM of 40% or more is required.

This module has a lecture, practical, tutorial and seminar content that is specially designed for Physiotherapy & Occupational Therapy.

**Introduction to Anatomy & Neuroanatomy**

**ANAT105 W1**

**Prerequisite Requirement:** NONE

**Corequisite:** NONE

**Aim:** To introduce students to the structure of body systems, the brain and spinal cord.
Content: Anatomical terminology; tissues & structures; the various organ systems; cranium, the central & peripheral parts of the nervous system; neuronal pathways and embryology of the brain.

Practicals: 1 x 3 hours weekly
Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for B DenTh & Oral Health.

Head, Neck & Back
ANAT106 W2
Prerequisite Requirement: ANAT105W1
Corequisite: NONE
Aim: To expose students to the structures of the head and axial structures.
Content: Nerves, Arteries, Veins, Lymphatic Drainage, Glands, Muscles and Bones of the Head, Neck and Back; Oral Cavity; Pharynx; Larynx; The Eye; The Ear; The Nose; The Back.
Practicals: 1 x 3 hours weekly
Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for Dental Therapy & Oral Health.

Head, Neck & Back
ANAT108 W2
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To expose students to the structures of the head and axial structures.
Content: Nerves, Arteries, Veins, Lymphatic Drainage, Glands, Muscles and Bones of the Head, Neck and Back; Oral Cavity; Pharynx; Larynx; The Eye; The Ear; The Nose; The Back.
Practicals: 1 x 3 hours weekly
Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for BOptom.

Upper & Lower Limbs
ANAT109 W2
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To expose students to the detailed anatomy of the limbs.
Content: Osteology; Breast; Brachial Plexus; Dermatomes & Myotomes; Lymphatic Drainage; venous Drainage; Arterial Supply; Nerves; Gluteal Region; Muscles; joints.
Practicals: 2 x 3 hours weekly.
Assessment: CAM 25%; 1x 2hr Written paper + 1 x 45min practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for Physiotherapy & Occupational therapy.

Ethics and Law for Anatomical Sciences
ANAT110 W2
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The purpose is to create an understanding of bioethical principles, human and animal experimentation touching on ethical and sociocultural issues.
Content: The module includes: Understanding the principles of autonomy, beneficence, justice, maleficence, human dignity and the sanctity of life; ethical and socio-cultural issues; human and animal experimentation; Section 8 of the National Health Act; Animal and Human Tissue UKZN Online course.
Practicals: 2 x Field trips to state mortuary, 1 x field trip to Biomedical Resource Unit.
Assessment: Formative: weekly Tutorial assignments + 1 x theory test – 40 % =CAM. Summative: 1 X 2 Hr written exam: Contributes 60% of final mark. Final mark: 40% of CAM + 60% exam mark, Pass mark: = 50%.

DP Requirement: 40 % CAM.

Neuroanatomy
ANAT111 W2
(18L-14T-14S-10H-7R-0F-0G-3A-12W-8C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To introduce students to the structure of the brain and spinal cord, cranium, the central & peripheral parts of the nervous system; neuronal pathways and embryology of the brain
Content: Lectures : There are 24 lectures on Neuroanatomy Practicals : Study of prosections supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge
Practicals: 1 X 3 hours weekly
Assessment: CAM 25% ; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for Audiology and Speech Language Pathology.

Anatomy
ANAT113 M0
(64L-0T-64P-32S-142H-0R-0F-0G-18A-32W-32C)
Aim: To expose students to human anatomy concentrating on gross morphology, osteology, embryology, neuroanatomy and clinically applied anatomy.
Content: Anatomical positions, planes, and basic terminology; overview of the nervous system; embryology and teratogens, overview of osteology with reference to radiology; the lymphatic system; arthrology; the upper limbs & pectoral girdle; thorax; abdomen; pelvis and perineum; lower limbs and pelvic girdle; neuro-anatomy; head and neck; vertebral column.
Practicals: 1 x 2 hour session each week.
Assessment: Theory Test, Practical Spotter Test, Vivas; and 1 examination.
DP Requirement: Candidates must attend at least 75% of all classes, 100% in the clinical setting, save those from which they have been officially excused.

Introduction to Anatomy and Neuroanatomy
ANAT115 W1
(29L-23T-32P-12S-30H-30R-0F-0G-4A-12W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To introduce students to the structure of body systems, the brain and spinal cord.
Content: Anatomical terminology; tissues & structures; the various organ systems; cranium, the central & peripheral parts of the nervous system; neuronal pathways and embryology of the brain.
Practicals: 1 x 3 hours weekly
Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for B DenTh & Oral Health.

Introduction to Anatomy, Head and Neck
ANAT117 W1
(36L-25T-25P-16S-26H-29R-0F-0G-3A-12W-16C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To introduce students to the structure of body systems, the brain and spinal cord and the structures of the head and axial structures.

Content: Lectures: There are 48 lectures on introduction to anatomy, the head and neck. Practicals: Study of prosections supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge.

Practicals: 1 x 3 hours weekly.

Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)

DP Requirement: 40%

This module has a lecture, practical, tutorial and seminar content that is specially designed for Audiology and Speech Language Pathology.

Head and Neck
ANAT119 W2
(52L-0T-52P-0S-20H-30R-0F-0G-6A-15W-16C)

Prerequisite Modules: None

Corequisite: None

Aim: The aim of the module is to develop foundational theoretical knowledge and understanding of the gross anatomy of the head and neck. This theoretical knowledge integrated with practical application within a lab setting allows for a deeper understanding of the subject.

Content: The head and neck region relevant to audiology and speech therapy students. This includes understanding and identifying key areas in regions such as: Mouth, tongue; palate, pharynx, larynx, nose and paranasal air sinuses; Ear; oesophageal pathways and clinical applicability; auditory pathways and clinical applicability; development of ear and clinical defects; development of mouth; palate and clinical defects.

Practicals: 2x2 hours weekly.

Assessment: Formative: 2 X 1hr theory tests (50%); 2X 1hr Practical (Spotter) tests (50%); 25% of DP contributes to the Final Mark. Summative: 1 X 2 hr written exam, 1x 1hour practical (spotter) exam = Final mark: 25% (DP)+75% exam mark.

DP Requirement: Student to obtain 40 % average of the formative assessments.

Introduction to Anatomy
ANAT201 W1
(24L-24T-36P-6S-50H-18R-0F-0G-2A-14W-16C)

Prerequisite Requirement: None

Prerequisite Modules: None

Corequisite: None

Aim: To introduce students to the structure of the body systems.

Content: The learner will have knowledge of the subject matter contained in the syllabus. He/she will be able to identify structures in the following systems nervous, cardiovascular, musculoskeletal, respiratory, gastrointestinal, endocrine and urogenital systems. Students will also integrate and apply this anatomical knowledge to clinical scenarios and pathologies. Practicals: Study of prosections supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge. Lectures: There are 24 lectures on introduction to Anatomy. Seminars: These are 6 seminars presented by students with clinical relevance.

Practicals: Practicals: 2 x 3 hours weekly.

Assessment: CAM 40%.CAM calculated as an average of +/- 2 tests spread over both semesters. These tests are in written paper and practical (‘spotter’) format. at least 1 of these tests will specifically require knowledge (and therefore attendance at) of details discussed in seminars. Exam 60%. 1 x 2hr Written paper + 1 x 45min Practical and/or 15 min oral examination. The final exam will have a written and a practical exam component which are equally weighted. Final mark: 40% of CAM + 60% exam mark. Pass mark: = 50%

DP Requirement: 40%

Neuroanatomy
ANAT202 W1
(24L-24T-36P-6S-50H-18R-0F-0G-2A-14W-16C)

Prerequisite Requirement: None

Prerequisite Modules: None

Corequisite: None

Aim: To introduce students to the structure of the brain and spinal cord.
Content: The learner will have knowledge of the subject matter contained in the syllabus. He/she will be able to identify and understand neuroanatomical structures viz: skull, vertebral column, parts of the nervous systems, anatomy of the brain and spinal cord and neuronal pathways. Students will be able to re-inforce, relate and apply anatomical knowledge to clinical scenarios or pathologies pertaining to the nervous system. Some of the topics covered will be: Osteology of the skull/vertebral column, venous sinuses and meningeal layers of the brain and spinal cord, Functional lobes of the brain and pathways controlling movement of the human body. Practicals: Study of prossections supplemented by relevant lectures, reinforcing and integrating theoretical and practical knowledge. Lectures: There are 24 lectures pertaining to Neuroanatomy. Seminars: These are 6 seminars presented by students with clinical relevance.

Practicals: 2 x 3 hours weekly.

Assessment: CAM 40%. CAM calculated as an average of +/- 3 tests spread over the semester. These tests are in written paper and practical (‘spotter’) format. at least 1 of these tests will specifically require knowledge (and therefore attendance at) of details discussed in seminars. Exam 60%. 1 x 2 hr Written paper + 1 x 45min Practical and/or 15 min oral examination. The final exam will have a written and a practical exam component which are equally weighted. Final mark: 40% of CAM + 60% exam mark. Pass mark: = 50%

DP Requirement: 40%

Cytology and Introduction to Histology
ANAT203 W2 (32L-15T-21P-0S-56H-30R-0G-6A-16W-16C)

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: To illustrate in depth cellular structure, function and chemistry and cell specialisation and the structure and function of basic tissues.

Content: Cellular structure and organelles, the plasma membrane, synthesis and transport. The neuron, Epithelia, Connective tissue, Cartilage, Nervous tissue, Muscle tissue and contractility.

Practicals: There are 7 practicals – 2 Histology practicals covering cytology and use of microscope; 3 histology practicals covering Basic primary tissue; 2 practicals covering basic histolgical techniques.

Assessment: Formative assessment - Year Mark (40%) (1X theory test and 1 X Practical test): Year mark comprises 70% theory test and 30% Practical test, Summative assessment - 2 hr Exam (60%)

DP Requirement: In order to gain access to the exam, students must have attended 80% of all contact activities and achieved a minimum 40% year mark.

Anatomy of the Head, Neck & Back
ANAT212 W2 (36L-23T-70P-39H-48R-0F-0G-4A-12W-24C)

Prerequisite Requirement: NONE
Corequisite: NONE

Aim: To expose students to the structures of the head and axial structures.

Content: Nerves, Arteries, Veins, Lymphatic Drainage, Glands, Muscles and Bones of the Head, Neck and Back; Oral Cavity; Pharynx; Larynx; The Eye; The Ear; The Nose; The Back.

Practicals: 3 x 3 hours weekly

Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of final mark)

DP Requirement: 40%

This module has a lecture, practical, tutorial and seminar content that is specially designed for Medical Science.

Anatomy of the Trunk
ANAT301 W1 (24L-24T-36P-6S-48H-20R-0F-0G-2A-14W-16C)

Prerequisite Requirement: None
Prerequisite Modules: ANAT201
Corequisite: None

Aim: To expose students to the anatomy of the thorax, abdomen, pelvis and perineum.

Content: The learner will have knowledge of the subject matter contained in the syllabus. He/she will be able to dissect, identify and display the wall of the trunk and the anatomy of all the relevant viscera contained within. In Thorax students
will cover: Ribs, Sternum, Thoracic vertebrae, Heart, Lung, Diaphragm, Posterior Thoracic wall, Muscles + Nerves + Blood vessels related to thoracic cavity. In Abdomen students will cover: Stomach, Pancreas, Small + Large Intestine, Liver, gall bladder and spleen, Kidneys, Muscles + Nerves + Blood vessels related to thoracic cavity. In Pelvis and Perineum students will cover: Osteology of the Pelvis (Joints and Ligaments, Sex Differences), Perineum, Disposition of Pelvic Peritoneum, Neurovascular Structures in the Pelvis (and Perineum), Male and Female Urogenital Organs, Pelvic Diaphragm, Rectum and Anal Canal. There are 24 lectures in the trunk. They are scheduled to synchronise with dissection of the cadaver. In addition tutorials and seminars clarify the subject covered in didactic lectures.

Practicals: Practical: 2 x 3 hours weekly.

Assessment: CAM 40%. CAM calculated as an average of +/- 6 tests spread over both semesters. These tests are in written paper and practical (‘spotter’) format. At least 1 of these tests will specifically require knowledge (and therefore attendance at) of details discussed in seminars. Exam 60%. 1 x 2hr Written paper + 1 x 45min Practical and/or 15 min oral examination. The final exam will have a written and a practical exam component which are equally weighted. Final mark: 40% of CAM + 60% exam mark. Pass mark: = 50%

DP Requirement: 40%

Embryology
ANAT302 W1

(24L-24T-36P-6S-40H-28R-0F-0G-2A-16W-16C)

Prerequisite Requirement: None
Prerequisite Modules: ANAT201
Corequisite: None

Aim: To expose students to embryonic and fetal development of the human body.


Practicals: Practical: 2 x 3 hours weekly.

Assessment: CAM 40%. CAM calculated as an average of +/- 3 tests spread over both semesters. These tests are in written paper and practical (‘spotter’) format. At least 1 of these tests will specifically require knowledge (and therefore attendance at) of details discussed in seminars. Exam 60%. 1 x 2hr Written paper + 1 x 45min Practical and/or 15 min oral examination. The final exam will have a written and a practical exam component which are equally weighted. Final mark: 40% of CAM + 60% exam mark Pass mark: = 50%

DP Requirement: 40%

Comparative skeletal Anatomy and Lab Tech
ANAT303 W1

(20L-15T-53P-0S-50H-18R-0F-0G-4A-16W-16C)

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: The aim of this module will be to develop students’ understanding of the comparative morphology of the human skeleton in relation to other mammal skeletons. The laboratory technique component of the module will develop students’ research skills.

Content: The student will have knowledge of the subject matter contained in the syllabus. The comparative skeletal anatomy component will deal with identification of various bones of the animal and human skeleton; the articulation of a skeleton and determination of age and sex. Laboratory techniques are a practical component with a pre-prac lecture. Practical: Students will articulate parts of a human and animal skeleton; knowledge and application of embalming techniques; micro-dissecting techniques; resin casting; osteometry, forensic anthropology and plastination.

Practicals: Practical: 2 x 3 hours weekly.

Assessment: Formative: 1 X 45min theory tests, 3 X 15 min oral presentation = 40% of final mark. Summative: 1 X 1 Hr written exam: Contributes 60% of final mark. Final mark: 40% of CAM + 60% exam mark. Pass mark: = 50%

DP Requirement: 40%
Research Project
ANAT304 W2 (10L-16T-0P-0S-129H-0R-0F-0G-5A-16W-16C)
Prerequisite Requirement: Certificate in the UKZN Human and animal online ethics course.
Prerequisite Modules: ANAT303
Corequisite: None
Aim: To enable students to attain the appropriate knowledge, understanding, skills and attitudes to undertake research under guidance and supervision at third year level.
Content: Theory: Introduction to the module. Theory: Introduction to quantitative research i.e. designs, data analysis, applications and statistics. Theory: Introduction to qualitative research i.e. designs, data analysis and focus group training. Theory: Referencing. Theory: Scientific writing and podium and poster presentations.
Practicals: Practical's: 4 x 45 MINS weekly
Assessment: 1 X Mini Thesis/Dissertation (20 pages max) – 60%, 1 x Oral presentation (10 mins)-40%. These projects will be presented in at an Anatomical research day within our School.
DP Requirement: None

Anatomy of the Upper & Lower Limbs
ANAT311 W2 (36L-48T-72P-12S-74H-74R-0F-0G-4A-12W-32C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To expose students to the detailed anatomy of the limbs.
Content: Osteology; Breast; Brachial Plexus; Dermatomes & Myotomes; Lymphatic Drainage; Venous Drainage; Arterial Supply; Nerves; Gluteal Region; Muscles; Joints.
Practicals: 3 x 3 hours weekly
Assessment: CAM 25%; 1 x 2hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 40%
This module has a lecture, practical, tutorial and seminar content that is specially designed for Medical Science.

Anatomical Research Methodology and Specialis
ANAT711 W1 (12L-12T-96P-0S-168H-30R-0F-0G-2A-12W-32C)
Prerequisite Requirement: B Med Sc degree with minimum 60% pass in level 3 anatomy
Corequisite: NONE
Aim: To introduce selected research methodologies and techniques involved/ used in undertaking anatomical research
Content: Latex impregnation, micro-dissection techniques, use of light dissecting microscope. use of digital equipment. Lectures on each sub-section of thesis writing.
Practicals: 2 x 3 hours weekly
Assessment: Production of abstract of research project (ANAT 714 WY)
DP Requirement: Research Protocol By June; presentation of Thesis by September

Advanced Topics 1
ANAT712 W1 (0L-4T-40P-0S-56H-56R-0F-0G-4A-12W-16C)
Prerequisite Requirement: B Med Sc degree with minimum 60% pass in level 3 Anatomy
Corequisite: NONE
Aim: To undertake an examination of specialized areas in Limb and Neuroanatomy
Content: Dissection of regional anatomy
Practicals: 3 x 3 hours weekly
Assessment: CAM 25%; 1 x 3hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 80% of module attendance

Advanced Topics 2
ANAT713 W2 (0L-4T-40P-0S-56H-56R-0F-0G-4A-12W-16C)
Prerequisite Requirement: B Med Sc degree with minimum 60% pass in level 3 Anatomy
Corequisite: NONE
Aim: To undertake an examination of specialized areas in Head & Neck & Trunk Anatomy
Content: Dissection of regional anatomy
Practicals: 3 x 3 hours weekly
Assessment: CAM 25%; 1 x 3hr Written paper + 1 x 45min Practical and/or oral examination (75% of Final mark)
DP Requirement: 80% of module attendance

Advanced Laboratory Techniques in Anatomy
ANAT7AL M1 W1 (22.5L-3T-45P-0S-24.5H-30R-0F-0G-35A-8W-16C)
Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.
Corequisite: None
Aim: The overarching aim of this module is to provide an in-depth theoretical and practical understanding of selected advanced laboratory techniques in Anatomy.
Content: Theory and practicals in basic and advanced laboratory techniques in Anatomy viz. preservation and embalming of human tissue, care and preparation of bones, articulation of skeletons, preparation of museum specimens (curatorship), creation of moulds and casts, injection methods and foetal staining of cartilage and bone.
Practicals: Practical sessions involving hands-on exposure to specialized techniques in anatomy.
Assessment: Final mark consists of 50% formative and 50% summative marks Formative: 2 practical tests (10% each); 1 assignment/presentation (10%); 1 theory test (20%) Summative: 1 x 3 hour exam (Theory) (30%) Practical portfolio (20%)
DP Requirement: Class mark of 50%, 80% attendance at practicals and lectures.

Clinical, Surgical and Radiologic Anatomy
ANAT7CS W2 (22.5L-0T-0P-0S-36.5H-30R-0F-48G-23A-8W-16C)
Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.
Corequisite: None
Aim: To develop a Scientist Anatomist with clinical, surgical and radiological anatomical skills and knowledge of the specific structures and/or regions involved in selected procedures.
Content: Clinical Anatomy emphasises aspects of the structure and function of the body that are important in the practice of medicine, dentistry and allied health sciences. It incorporates the regional and systemic approaches and stresses clinical/surgical application, while radiological techniques are used to demonstrate living anatomy.
Practicals: Practical sessions involving hands-on exposure to specialized techniques in anatomy.
Assessment: Final mark consists of 50% formative and 50% summative marks Formative: 2 theory test (10% each); 2 assignment/presentation (10% each) Summative: Complete a written examination, which contains questions testing knowledge, comprehension, application, analysis, synthesis and evaluation (60%)
DP Requirement: Class mark of 50%, 80% attendance at practicals and lectures.

Research Project in Anatomy
ANAT7RP WY (0L-0T-27P-323H-23R-0F-0G-81A-26W-48C)
Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.
Corequisite: None
Aim: To develop research capacity in Medical Science, and to develop students with initiative, problem-solving ability, communication skills (written and oral) and technical expertise, as well as an advanced level of knowledge in their field of specialisation (either Anatomy, Human Physiology, Medical Biochemistry, or Medical Microbiology).
Content: Formulation of a research question and hypothesis, literature review, referencing tools, research protocol development, ethics application, oral presentation of protocol, training in selected, specialized laboratory techniques specific to project, laboratory experimental work, analysis and interpretation of results and manuscript writing and oral presentation of completed project.
Practicals: Project-related laboratory experimental work under supervision
Assessment: Final mark consists of 20% formative and 80% summative marks Formative: written proposal and oral presentation: 20% Summative: Written manuscript (50%); oral presentation of final project (20%); mastery of laboratory skills (10%)
**Syllabi**

**DP Requirement:** None

**Health and Illness Behaviour**

BHEME222 W2

(36L-9T-0P-0S-85H-25R-0F-0G-5A-15W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** To provide an interdisciplinary module for Health Science students that equips them with an understanding of the psychosocial and cultural determinants of health and illness. To develop communication skills to enhance the clinical relationship. To introduce students to child and adult psychosocial development regarding development themes and theories within the South African context.

**Content:** the biopsychosocial model of abnormal behaviour and illness; understanding social and cultural influences on health; models of health behaviour and health promotion; issues of adherence; and fundamentals of clinical communication. The module also covers the psychology of loss/injury, disability and rehabilitation as well as the psychology of use/addiction to illegal substances (including informational counselling/psycho-education). An understanding of the processes of psychosocial changes over the life span especially during childhood and adolescence will be the major focus, enabling the student to contextualise other studies of human behaviour within a developmental time frame. It draws on several theories of development to introduce learners to some of the conceptual and research issues within developmental psychology.

**Assessment:**
- Module mark = Final Examination (60%) + Formative Assessment (40%)
- The formative assessment will consist of: Term Test 90% Tutorial Attendance 10% A student needs to obtain a formative assessment mark of at least 40% in order to qualify for the final examination.
- The summative assessment consists of: FINAL EXAMINATION: 1 x 3 hour Paper 1x test and 1x exam

**DP Requirement:** The DP requirement is a formative assessment mark of at least 40%

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**Chemical Pathology**

**C Path Clin & Prof Practice 1**

CHPA8B2 MC

(10L-200T-100P-24S-330H-70R-1790F-36G-140A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** To introduce the registrars to the practice of laboratory medicine and ensure they obtain and broaden solid understanding of basic sciences and pathophysiology of disease. To strengthen their grasp of professional ethics and professional behaviour.

**Content:** Basic laboratory principles and laboratory statistics; Quality control and laboratory safety; Analytical methodology; Biochemical and metabolic aspects of disease; Basic concepts of molecular biology and genetics; Basic sciences of chemical pathology.

**Practicals:** None

**Assessment:** Formative: A professional portfolio is assessed annually to assess the student progression. Summative: After a minimum of 18 months of training, registrars sit an exam which comprises, 4 written papers: essay (20%), short answer questions (20%), calculations (10%), cases (10%), 2 practical component: wet practical (20%) and OSPE (10%); Oral examination (10%). The subminimum for each component is 50%. Each component of the examination has to be passed separately.

**DP Requirement:** Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence-academic, clinical and professional.

**None**

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**C Path Clin & Prof Practice 2**

CHPA8B3 MC

(10L-200T-100P-24S-330H-70R-1790F-36G-140A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** CHPA8B2

**Corequisite:** None
Aim: The aim of the module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of clinical virology at a specialist level without supervision.

Content: Laboratory techniques; Instrumentation and methodology; Chemical pathology of disease; Toxicology, pharmacokinetics; Therapeutic and drugs of abuse detection and monitoring; Quality management and quality control; Laboratory safety.

Practicals: None

Assessment: Formative-A professional portfolio is assessed annually and forms the basis to assess the student progression decision (60%). Summative-After a minimum of 18 months of training, registrars sit an exam which comprises: 4 written papers; essay (20%), short answer questions (20%), calculations (10%), cases (10%); 2 practical components: wet practical (20%) and OSPE (10%); oral examination(10%) The sub minimum for each component is 50%. Each component of the examination has to be passed separately.

DP Requirement: Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

None

MBChB

Basic and Foundation Science for Medicine
CMED1BF (300L-64T-182P-54S-235H-45R-0F-40G-40A-0W-96C)

Aim: The aim of the module is to provide students with basic knowledge and skills required for understanding the form and function of the human body. It includes understanding of the scientific principles from pure science disciplines such as Physics, Chemistry and Biology and application of this knowledge to the understanding of Anatomy, Physiology Therapeutics, Microbiology and Chemical and Anatomical pathology.

Content: The content of the module covers various disciplines and is delivered in an integrated manner. The discipline based content includes: integrated physical science for medicine, general chemistry, biochemistry and organic chemistry, human biology and histology, human anatomy, physiology, therapeutics and pathology including basic principles of anatomical and chemical pathology as well as microbiology and virology

Practicals: Practicals are conducted in the various disciplines; e.g. Histology: laboratory and computer-based practicals; Anatomical Pathology: laboratory (museum [bottled specimens]) and computer-based practicals; Physiology and Biochemistry: laboratory based practicals; Clinical Anatomy: demonstrations of prospected specimens and cadaveric dissection; Microbiology and Virology: laboratory and computer-based practicals. There will be no field trips in this module.

Assessment: Module Mark = Year Mark(50%) + End-of-Module Exam (50%); Year Mark = 4 class tests (25% each). Exemption from Final Examination (EME) A student may be exempted from the EME by virtue of having obtained at least 65% in each ETT. Such a student will further need to have obtained a sub-minimum of 50% in each of the components of each ETT, i.e., Anatomy, Physiology, Anatomical Pathology, and the Multidisciplinary component as detailed above. Any student who fulfills the above criteria may apply for exemption from sitting for the written component of the End of Module Examination (EME) within three (3) days after the last ETT (release of marks).The final module mark of a student who is exempted from the EME will be the average of the class tests.

DP Requirement: 80% attendance at all scheduled teaching activities; must pass each component (anatomy, physiology, pathology, microbiology, therapeutics) in the year mark and must obtain at least 50% in the year mark

Computer Literacy
CMED1CL (5L-10T-30P-0S-20H-0R-0F-0G-15A-0W-8C)

Aim: The aim of the module is to provide students with basic knowledge and skills required for them to be able to use computers in their everyday learning and communication. It also provides instruction in the basic software packages (e.g. Microsoft office suite) and includes the use computers for research and presentation and the ability to manipulate data.

Content: The content of the module covers all Microsoft package (Word, Excel, PowerPoint) and Internet and communication (e-mail). Internet includes introduction to learning management systems (LMS, e.g. OLS, Moodle) which are used by the Faculty and the University. Practicals: Practicals are conducted in all the modules at the Computer laboratory as this is a practical based module.

Practicals: Practicals are conducted in all the modules at the Computer laboratory as this is a practical based module.
**Assessment:** Year Mark = 4 class tests (25% each) [each class test has written and practical components] The written component 75% and practical component (25%) in each test. Both components (practical and written) assess the theory and the application thereof. The End of Module examination will have the same structure as the class test, i.e. written and practical components.

**DP Requirement:** 80% attendance at all scheduled teaching activities; must pass each component (Word, Excel, PowerPoint) in the year mark and must obtain at least 50% in the year mark.

**English Literacy**

**CMED1EN**

(20L-20T-7P-0S-18H-6R-0F-0G-9A-0W-8C)

**Aim:** The purpose of this module is to provide skills for using English correctly in clinical and professional situations to future doctors. This includes the ability to read and write academic literature, communicate effectively in the profession and understand medical terminology and the origins of such terms.

**Content:** Basic Communication Theory Basic English communication for medical practitioners Listening and speaking in simulated clinical situations Simulated writing tasks for clinical and research situations Reading of relevant genres, e.g. case studies, clinical reports, articles. Greek and Latin origins of medical terminology Relevant concepts of English language usage

**Practicals:** Practicals will be conducted where students will engage in oral practice of the language structures introduced in systematic lectures and role play of activities involving the patient and the doctor will be undertaken. Students will practice pronunciation and language structures on their own in the language laboratory or in pairs

**Assessment:** Year Mark = worksheets and exercises 10% + writing tasks in different genres 10% + class tests 30%

**DP Requirement:** 80% attendance at all scheduled teaching activities; must pass each component (written and practical) in the year mark and must obtain at least 50% in the year mark.

**Becoming a Professional**

**CMED1PC**

(66L-18T-14P-8S-90H-16R-6F-22G-80A-0W-32C)

**Aim:** The aim of the module is to provide the student with the foundational knowledge, skills and attitudes, which are crucial for their optimum performance as undergraduate students in the integrated, multidisciplinary, problem-based learning programme, through their interaction with (and understanding of) a population based perspective of health, including occupational and environmental health, behavioural medicine and family medicine in protecting the health of the individual, family and community, as well as promoting wellness. The application of ethical principles and adherence to the codes of conduct and professionalism befitting the medical profession in the context of medical practice and in relation to the appropriate modes of communication are also key.

**Content:** This module will cover aspects of individual mental, social and physical health and development; family, public, occupational and environmental health; psychology and language, communication and essential skills.

**Practicals:** Students are expected to conduct 16 hours of community service as part of the Making a Difference: Group community service activity to experience and reflect on the social determinants of health. Case studies to understand workplace risks and community environmental exposures. Small group communication skills, practicals and HIV and AIDS awareness workshops.

**Assessment:** The summative mark for the calculation of the end of Semester two will be comprised of 33.3% from each of the two end of term tests and 33.3% from the Making a Difference activity. Exemption from the EME. A student may be exempted from the EME by virtue of having obtained at least 65% in each of the 5 year mark components. Any student who fulfills the above criteria may apply for exemption from sitting the written component of the EME within three (3) days after the last ETT (release of marks). This exemption does not include the OSCE component. The final module mark of a student who is exempted from the EME will be calculated by adding the weighted average of the class mark to the OSCE mark, in a proportion of 90% to 10%.

**DP Requirement:** There are no DP requirements.

**IsiZulu**

**CMED1ZU**

(16L-30T-16P-0S-8H-0R-0F-0G-12A-0W-8C)

**Aim:** The aim of the module is to equip medical students with language skills in isiZulu which will enable them to conduct a medical consultation with a patient in an outpatient’s ward. The module aims at introducing the medical student to the
sounds of the Zulu language and language functions and structures as well as vocabulary that he/she will need during a consultation with a Zulu speaking patient. The course aims mainly at oral proficiency in the language functions and vocabulary taught, but written proficiency will not be neglected. The course also aims at giving the student a general overview of the structure of the language. Aspects of culture related to health will also be discussed and the relevant vocabulary taught. Norms of politeness and language functions relating to forms of address that are acceptable to isiZulu speakers will be covered and the appropriate vocabulary provided.

**Content:** The instruction in this module covers the language structures and vocabulary related to greeting, politeness, forms of address, determination of presenting problems and other relevant biomedical and psychosocial information, provision of information and general health education of persons conversant in isiZulu. It would also cover cultural perspectives of illness and health in isiZulu speaking Black African patients.

**Practicals:** Practicals will be conducted where students will engage in oral practice of the language structures introduced in systematic lectures and role play of activities involving the patient and the doctor will be undertaken. Students will practice pronunciation and language structures on their own in the language laboratory or in pairs.

**Assessment:** Module Mark = Year Mark 50% + Final Examination (End of Module exam 50%) Year Mark = 4 class tests (25% each) [each class test has written and practical components] The written component 50% and practical component (50%) in each test. Both components (practical and written) assess the theory and the application thereof. The End of Module examination will have the same structure as the class test, i.e. written and practical components.

**DP Requirement:** 80% attendance at all scheduled teaching activities; must pass each component (written and oral) in the year mark and must obtain at least 50% in the year mark.

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**Homeostasis**
CMED2CR

(108L-46T-126P-0S-225H-75R-0F-94G-46A-18W-72C)

**Aim:** This module focuses on the development of a deep understanding of the basic sciences. It aims to provide students with knowledge and skills relevant to the understanding of the form and function of the Respiratory, Cardiovascular and Renal systems. It also introduces the student to the signs & symptoms and the pathophysiology relevant to conditions that affect these organ systems. Students who take this module will develop skills in gathering information through patient interviews. They will also develop appropriate skills in clinical reasoning and be introduced to the process of physical examination.

**Content:** The content of the module covers various disciplines and is delivered in an integrated manner as relevant to the respiratory, cardiovascular and renal systems. The discipline-based content includes: integrated physical science for medicine (where relevant and appropriate), general chemistry (where relevant and appropriate), biochemistry and organic chemistry, embryology and histology, human anatomy, physiology, therapeutics and medicines management, principles of family medicine and community and public health, diagnostic radiology and pathology disciplines including basic principles of anatomical pathology, chemical pathology, microbiology and virology and relevant clinical skills.

**Practicals:** Anatomy: Dissection programme (4hrs x 16 weeks = 64) of the module in DOCA Dissection Hall Disciplines below will conduct sessions in Multipurpose Laboratory: Histology of Respiratory, Cardiovascular and Renal systems (2hrs x 4 = 8) Physiology: Spirometry: obstructive and restrictive disease patterns (2hrs) Biochemistry: Acid-base regulation and buffering (2hrs) Anatomical pathology: Demonstration of specimens (2hrs x 4 weeks = 8) Microbiology (2hrs) Clinical skills (2.5hrs x 16 weeks = 40hrs)

**Assessment:** Module Mark = Class Mark 50% + Final Examination (End of Module Exam 50%) Class mark General Pathology tests (*3 + End-of-theme tests (weighted average of 3 tests) Weighting is as follows: General Pathology Tests = 10%: Test 1 will contribute 10% to ETT1; Test 2 will contribute 10% to ETT 2 and Test 3 will contribute 10% to ETT 3 Respiratory ETT = 41%; CVS ETT = 35%; Renal ETT = 24% Final Examination (EME): i) Written (Respiratory + CVS + Renal) = 80% ii) Objective structured clinical examination (OSCE)= 20% Rules for progression and subminimum: The examination content will be assessed in 4 theory-based question papers, an Anatomy Spotter and an OSCE. The discipline-based content is as follows: i. Anatomy ii. Physiology iii. Anatomical Pathology iv. Integrated multidisciplinary paper To pass the module the student must obtain 50% for the EME, with a sub-minimum of 50% in the OSCE. The final module mark of a student who writes the EME will be the average of the EME mark and the class mark.

**DP Requirement:** 80% attendance at all scheduled teaching activities Submission of a completed logbook for clinical skills.

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**Community and Evidence Based Practice I**
CMED2HD

**Prerequisite Modules:** CMED1BF, CMED1PC

(20L-6T-0P-0S-28H-6R-50F-26G-24A-4W-16C)
Corequisite: None
Aim: The Selectives 01 module is one of a suite of modules offered by Family Medicine, Rural Health and Public Health Medicine in the 2nd, 3rd and 4th year of the MBChB programme. It serves to introduce learners to the principles of community- and evidence-based health care, family medicine and research through experiential learning opportunities and is based on the Community Oriented Primary Health Care approach.
Content: This module enables students to experience primary health care, understand a population perspective on health, conduct ethical community-based research, make evidence-based decisions and use health promotion principles to address and evaluate community needs in a site selected by the students. In addition, group work and working with the health care team is encouraged.
Practicals: Students work in self-selected groups of 2 to 4 and undertake the 4-week Selective in primary health care facilities and a community of their own choice usually near their homes. The module is facilitated by Primary Health Care Practitioners in the Selectives Site and Selectives Supervisors from the School of Nursing and Public Health give academic support.
Assessment: The assessment in this module comprises individual and group written assignments contained in a portfolio of learning that is submitted and assessed electronically via Moodle. The assignments include: observed primary-care consultations 10%, practice profile 15%, PHC facility assessment 10%, patient/family study 15%, PHC health resources mapping 10%, community diagnosis & research question 5%, literature review 20%, reflective journalling (5%), evidence of meeting Selectives supervisor and attending the four-week module in the community 10%, TOTAL 100%. A student who fails the module will be required to re-submit course work after corrections and improvements have been made.
DP Requirement: There are no DP requirements.

Co-ordination, Protection and Control
Syllabi

CMED2NG (108L-46T-126P-0S-225H-75R-0F-94G-46A-18W-72C)
Aim: This module focuses on the development of a deep understanding of the medical sciences. It aims to provide students with knowledge and skills relevant to the understanding of the form and function of the gastrointestinal, endocrine and integumentary systems. In addition, it introduces the student to the physiology of nutrition, genetics and the concept of autoimmunity and the molecular basis of diseases.
Content: The content of the module covers various disciplines and is delivered in an integrated manner as relevant to the gastrointestinal, liver and biliary system (and nutrition), endocrine system, skin and auto-immunity, genetics and molecular conditions. The discipline-based content includes: integrated physical science for medicine (where relevant and appropriate), general chemistry (where relevant and appropriate), biochemistry and organic chemistry, embryology and histology, human anatomy, physiology, therapeutics and medicines management, principles of family medicine and community and public health, diagnostic radiology and pathology disciplines, including general and systemic pathology, chemical pathology and microbiology and virology.
Practicals: : Anatomy: Dissection programme (4hrs x 16 weeks= 64) of the module in DOCA Dissection Hall Disciplines below will conduct sessions in Multipurpose Laboratory: Histology of gastrointestinal, endocrine and integumentary systems (2hrs x 4 = 8) Physiology (2hrs) Biochemistry : Acid-base regulation and buffering (2hrs) Anatomical pathology: Demonstration of specimens (2hrs x 4 weeks = 8) Microbiology (2hrs) Clinical skills (2.5hrs x 16 weeks= 40hrs)
Assessment: : Module Mark = Class Mark 50% + Final Examination (End of Module Exam) 50% Class Mark Weighted average of end-of-the-module tests Weighing is as follows GIT = 50% Endocrine = 44%; Skin, genetics, molecular and autoimmunity = 6% Final Examination (EME): i) Written = 80% ii) Objective structured clinical examination (OSCE)= 20% Rules for progression and subminimum: The examination content will be assessed in 4 theory-based question papers, an Anatomy Spotter and an OSCE. The discipline-based content is as follows: i. Anatomy ii. Physiology iii. Anatomical Pathology iv. Integrated multidisciplinary paper To pass the module the student must obtain 50% for the EME, with a sub-minimum of 50% in the OSCE. The final module mark of a student who writes the EME will be the average of the EME mark and the class mark. Exemption from Final Examination (EME) A student may be exempted from the EME by virtue of having obtained at least 65% in each ETT. Such a student will further need to have obtained a sub-minimum of 50% in each of the components of each ETT, i.e., Anatomy, Physiology, Anatomical Pathology, and the Multidisciplinary component as detailed above. Any student who fulfils the above criteria may apply for exemption from sitting for the written component of the End of Module Examination (EME) within three (3) days after the last ETT (release of marks). This exemption does not include the OSCE component. The final module mark of a student who is exempted from the EME will be calculated by adding the weighted average of the class mark to the OSCE mark, in a proportion of 90% to 10%. This exemption does not negate the DP requirements for the module.
DP Requirement: 80% attendance at all scheduled learning activities. Submission of a completed clinical skills logbook

Community & Evid. Based Practice II
CMED3E2 (10L-0T-0P-0S-28H-6R-90F-0G-26A-4W-16C)
Prerequisite Modules: CMED2HD
Corequisite: None
Aim: The overall aim of the Selectives 02 module is to understand, consolidate and apply the principles of family medicine, community-based medicine and research through experiential learning opportunities and: to bridge the gap between theory and practice of medicine; to introduce, experience and practice patient-centred care within an ethical framework; to understand community-orientated care; to participate in basic health research; and to continue critical and analytical thinking.
Content: This module covers aspects related to family medicine, community and public health and research. In addition, group work and working with the health care team is encouraged.
Practicals: Students work in self-selected groups of 2 to 4 and undertake the 3-week Selective block in the same primary health care facilities and surrounding community as Selectives 01. There is as an additional one week of academic time allocated for research methods lectures and supervised tutorial time to develop the community-based research study protocol. The module is facilitated by primary health care practitioners in the Selectives Site and Selectives Supervisors from the School of Nursing and Public Health give academic support.
Assessment: The assessment in the Selectives 02 module comprises individual written and group work assignments. The written components are submitted and assessed electronically via Moodle. The students present the findings of their research study in the form of a group scientific research poster which is assessed at a Research Poster Presentation Day. The assignments include: participation in 20 primary care consultations (15%), acute patient study (10%), patient / family study – follow-up (10%), research study protocol approved by the Biomedical Research Ethics Committee of the College (15%), ethics certificate (5%), research study poster presentation 30%, reflective journalling (10%), evidence of meeting Selectives supervisor and attending the four-week module in the community 5%, A student who fails the module is required to re-submit assignments after improvements have been made.
DP Requirement: There are no DP requirements.

CMED3IC M0 (24L-20T-40P-0S-28H-10R-0F-20G-18A-4W-16C)
Prerequisite Modules: CMED2CR, CMED2NG
Corequisite: CMED3MN; CMED3RH
Aim: In this module, students will gain insight into clinical problem-solving associated with common medical problems. This module bridges the gap between the modules of the first three years, in which the emphasis is placed on understanding the basic sciences, and the clinical modules in the fourth to sixth years (clinical years) of the MBChB-6 programme. The material covered in this module lays the foundation for further study in subsequent years. In addition, the principles and processes of problem-based learning are followed.
Content: The content of the module covers various disciplines in an integrated manner. It covers common conditions that affect the organ systems, and multi-system diseases. Both acute and chronic conditions are covered while the concept of symptom complexes will be introduced to demonstrate how these can be used to further inform the enquiry through interview and physical examination. Furthermore, understanding of the pathophysiology of the symptoms and signs will be reinforced, as will the relevant basic science. Introductory principles of therapeutic procedures and management will also be introduced.
Practicals: 20 hospital visits for practical bedside teaching.
Assessment: Module Mark End of Module Examination (EME): i)Written - MCQ = 55% ii)Objective structured clinical examination (OSCE) 45% To pass the module students must: - pass the module overall - pass the final written examination ≥50% - pass the final clinical examination ≥50%
DP Requirement: 80% attendance at all scheduled small group teaching and learning activities

Mental Hlt. & Neuro-musculo-skeletal problems
CMED3MN (96L-16T-128P-0S-225H-65R-0F-64G-46A-0W-64C)
Prerequisite Modules: CMED2CR, CMED2NG
Aim: This module focuses on the development of a deep understanding of the basic sciences. It aims to provide students with knowledge and skills relevant to the understanding of the form and function of the neurological and musculoskeletal systems, and provides an introduction to rehabilitative medicine. The student will also be introduced to the signs & symptoms and the pathophysiology relevant to conditions that affect these organ systems. Students will develop skills in gathering information through patient interviews. They will also be introduced to the process of physical examination and develop appropriate skills in clinical reasoning.

Content: The module covers various disciplines in an integrated manner as relevant to the neurological and musculoskeletal systems. The discipline-based content includes: integrated physical science for medicine, general chemistry, biochemistry and organic chemistry, embryology and histology, human anatomy, physiology, therapeutics and medicines management, principles of family medicine and community and public health, diagnostic radiology and pathology disciplines including general and systemic pathology, chemical pathology, microbiology and virology.

Practicals: Anatomy: Dissection programme 4 hours per week for the duration of the module (16 x 4 = 64 hrs) Histology: Practicals 2 hours in two themes of the module (4 hrs) Anatomical Pathology: Demonstrations of specimens or other practicals 1 hour per week (16 hrs) Microbiology: 2 hours in two themes of the module (4 hrs) Clinical Skills training - 2.5 hours per week for the duration of the module (16 x 2.5 = 40 hrs)

Assessment: Module Mark = Class Mark 50% + Final Examination (End of Module Exam) 50% Class Mark Weighted average of the end-of-theme tests Weighting is as follows: Nervous system and Psychiatry 60% (including 5% rehabilitative) Musculoskeletal 40% (including 5% rehabilitative) Final Examination (EME): i) Written = 80% ii) Objective structured clinical examination (OSCE) = 20% Rules for progression and subminimum: In the context of the Mental Health; Musculoskeletal System, this phase of the programme emphasises the attainment of Basic Science knowledge. The examination content will be assessed in 4 theory-based question papers, an Anatomy Spotter and an OSCE. The discipline-based content is as follows: i. Anatomy ii. Physiology iii. Anatomical Pathology iv. Integrated multidisciplinary paper (weighted at 25% each) To pass the module the student must obtain 50% for the EME, with a sub-minimum of 50% in the OSCE. The final module mark of a student who writes the EME will be the average of the EME mark and the class mark. Exemption from Final Examination (EME) A student may be exempted from the EME by virtue of having obtained at least 65% in each ETT. Such a student will further need to have obtained a sub-minimum of 50% in each of the components of each ETT, i.e., Anatomy, Physiology, Anatomical Pathology, and the Multidisciplinary component as detailed above. Any student who fulfils the above criteria may apply for exemption from sitting for the written component of the End of Module Examination (EME) within three (3) days after the last ETT (release of marks). This exemption does not include the OSCE component. The final module mark of a student who is exempted from the EME will be calculated by adding the weighted average of the class mark to the OSCE mark, in a proportion of 90% to 10%. This exemption does not negate the DP requirements for the module.

DP Requirement: 80% attendance at all scheduled learning activities Submission of a completed logbook for clinical skills

Reprod. Hlth, Blood & Al, Infect. Des. & Aids
CMED3RH (0L-0T-0P-0S-160H-0R-0F-0G-0A-4W-16C)

Prerequisite Requirement: CMED2CR, CMED2NG

Aim: This module focuses on the development of a deep understanding of the basic sciences. It aims to provide students with knowledge and skills relevant and pertinent to the understanding of the form and function of the reproductive system (in males and females), the haematological system, and autoimmune conditions related to the organ systems. It also covers infectious diseases and AIDS and the effect of these conditions on the organ systems. Content: The module covers disciplines in an integrated manner. The haematological system, as well as the form and function of male and female organs in the reproductive system are covered. Students are required to gain an understanding of the pathophysiology of the symptoms and signs of relevant diseases. With regard to infectious diseases and AIDS, the student is expected to know and discuss the aetiology, pathogenesis and epidemiology of the common infectious diseases currently affecting South Africans and they should be able to arrive at a differential diagnosis related to problems of the reproductive and haematological systems.

Content: The module covers disciplines in an integrated manner. The haematological system, as well as the form and function of male and female organs in the reproductive system are covered. Students are required to gain an understanding of the pathophysiology of the symptoms and signs of relevant diseases. With regard to infectious diseases and AIDS, the student is expected to know and discuss the aetiology, pathogenesis and epidemiology of the common infectious diseases currently affecting South Africans and they should be able to arrive at a differential diagnosis related to problems of the reproductive and haematological systems.
Practicals: Anatomy: Dissection programme 6 hours per week for the duration of the module (16 x 4 = 64 hrs)  
Physiology: blood groups, bleeding and clotting times (2 hrs)  
Histology: Practical: reproductive system (in males and females), the haematological system, and tissues and organs of the lymphatic system (2 hours each = 6 hrs)  
Anatomical Pathology: Demonstrations of specimens or other practicals 1 hour per week (16 hrs)  
Microbiology: Organisms causing sexually transmitted infections, rational use of antibiotics, malaria prophylaxis (2 hours each = 6 hrs)  
Clinical Skills training - 2.5 hours per week for the duration of the module (16 x 2.5 = 40 hrs)

Assessment:  
- Module Mark = Class Mark 50% + Final Examination (End of Module Exam) 50%  
- Mark Weighted average of the end-of-theme tests  
- Weighting is as follows: Reproductive Health = 50% Blood and Autoimmune conditions = 20% Infectious Diseases and AIDS = 30% Final Examination (EME):  
  1. Written = 80%  
  2. Objective structured clinical examination (OSCE) = 20% Rules for progression and subminimum:  
  - In the context of the Reproductive health; Blood and Auto-Immune diseases, Infectious diseases and AIDS, this phase of the programme emphasise the attainment of Basic Science knowledge. Content will be assessed in 4 theory-based question papers, an Anatomy Spotter and an OSCE. The discipline-based content is as follows: i. Anatomy of the organs/systems mentioned ii. Physiology of the organs/systems mentioned iii. Anatomical Pathology of the organs/systems mentioned iv. Integrated multidisciplinary paper (weighted at 25% each)  
  - To pass the module the student must obtain 50% for the EME, with a sub-minimum of 50% in the OSCE. The final module mark of a student who writes the EME will be the average of the EME mark and the class mark. Exemption from Final Examination (EME): A student may be exempted from the EME by virtue of having obtained at least 65% in each ETT. Such a student will further need to have obtained a sub-minimum of 50% in each of the components of each ETT, i.e., Anatomy, Physiology, Anatomical Pathology, and the Multidisciplinary component as detailed above.  
  - Any student who fulfils the above criteria may apply for exemption from sitting for the written component of the End of Module Examination (EME) within three (3) days after the last ETT (release of marks). This exemption does not include the OSCE component. The final module mark of a student who is exempted from the EME will be calculated by adding the weighted average of the class mark to the OSCE mark, in a proportion of 90% to 10%. This exemption does not negate the DP requirements for the module.

DP Requirement: 80% attendance at all scheduled learning activities. Submission of a completed logbook for clinical skills.

Child Health 1  
CMED4CH MC (OL-35T-0P-10S-40H-20R-105F-0G-30A-6W-24C)

Prerequisite Modules: CMED3MN, CMED3RH, CMED3IC and CMED3E2

Corequisite: None

Aim: This module aims to equip the student with the clinical skills to be able to identify, assess and manage a child presenting with common childhood illness. At the end of the module the student should be able to: Obtain a paediatric history of presenting complaints, development, immunisation, past medical and social history. Perform a clinical examination of an ill child including interpretation of the signs elicited and understanding the pathophysiological basis for them. To propose a differential diagnosis, basic investigations and management after a clinical examination of an ill child. Understand the presenting features of common childhood illness and basic concepts of IMCI To communicate effectively with parents of ill children, display professional ethical behavior and understand basic concepts of Palliative care. To collaborate and effectively communicate with other professionals caring for a sick child.

Content: The paediatric content of the module will focus on the history taking and examination of children (both general and in the various systems). The student must develop appropriate history taking and communication (with care-givers) skills. The student will be able to identify normal growth and development and recognise disorders of growth and development. The student will learn IMCI (integrated management of childhood illnesses), normal feeding, immunizations and perform a systematic clinical examination of a child. In addition the student will be introduced to Ethics And Professionalism, palliative care and child abuse.

Practicals: None

Assessment: Clinical Assessments (50%) + Written Examination (50%)-Clinical Assessments: 2 short cases (60%), portfolio examination (20%) on 1 of 3 submitted cases. In block clinical assessment (20%). Written examination: This will comprise MCQ/MEQ (60%) and written stations (40%). To pass the module the student must obtain: a final module mark of 50%, a subminimum of 50% in the clinical assessments, a subminimum of 50% in the written examination. A student will not be credited with having passed this module until he or she is able to show logbook evidence of having attended 100% of the activities of IMCI training. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each
component, all subcomponents will be retaken. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

**DP Requirement:** 80% attendance at all scheduled small group teaching and learning activities. 80% attendance of IMCI scheduled facilitation sessions and feedback. The submission of a completed learning portfolio for this module will include both Clinical cases (3 completed portfolios cases) and procedures. The submission of a completed logbook at the end of the module.

### Community and Evidence Based Practice III

**CMED4EL MC**

**Prerequisite Modules:** CMED3E2, CMED3MN, CMED3RH, CMED3IC

**Corequisite:** None

**Aim:** The overall aim of the Selectives 03 module is to equip the undergraduate medical student with sufficient knowledge, clinical, technical and professional skills to meet priority community needs through the implementation and evaluation of a community-based health promotion activity.

**Content:** Students will design, implement and evaluate a community-based health promotion activity to address a priority health problem in their Selectives Site.

**Practicals:** Students work in self-selected groups of 2 to 4 and undertake the 2-week Selective block in the same primary health care facilities and the surrounding community is in Selectives 01 & 02. An additional two weeks of academic time comprises homework. The module is facilitated by primary health care practitioners in the Selectives Site and Selectives Supervisors from the School of Nursing and Public Health give academic support.

**Assessment:** The assessment in the Selectives 03 module comprises individual written and group work assignments. The written components are submitted and assessed electronically via the Student Management Learning System. The students present their health promotion intervention activity in the form of a group PowerPoint presentation on a Health Promotion Activity Presentation Day. The assignments include: consulting (under supervision) and reporting on 3 primary-care patients, patient/family study – follow-up, reflective journaling, prescription audit preparation exercise, prescription audit, health promotion preparation exercise, group health promotion presentation, evidence of meeting Selectives supervisor and attending the two-week module in the community. A student who fails the module is required to re-submit assignments after improvements have been made.

**DP Requirement:** No DP requirements for this module.

### Integrated Acute Care

**CMED4IA MC**

**Prerequisite Requirement:** None

**Prerequisite Modules:** CMED3MN1, CMED3RH2, CMED3ICM2 and CMED3E2

**Corequisite:** None

**Aim:** To provide the student with a baseline knowledge of integrated acute care which includes: emergency, critical care and forensic aspects of patient care. A focus is on trauma, medical emergencies, forensics, anaesthesia and trauma-orthopaedics as a basis from which to build while rotating through all the other disciplines where acute/emergency cases may be encountered.

**Content:** Adult and paediatric trauma – approaches and interventions, Individual organ-system injuries: evaluation and management, Adult and paediatric life-threatening medical emergencies (airway, breathing and cardiac; toxicology and endocrine emergencies), Snake and spider bites, scorpion stings, Basic principles of critical care, Emergency and elective anaesthesia, Trauma orthopaedics and emergency non-trauma orthopaedics: clinical assessment, diagnosis and management, Forensic aspects of medical practice, trauma and non-trauma.

**Practicals:** None

**Assessment:** Multiple choice questionnaire, 120 marks with the option of a supplemental exam for those achieving 45-49%. The paper will be divided as follows: 25 marks each to: Trauma/Emergency; Critical Care; Anaesthesia; Orthopaedics and 20 marks for Forensic Medicine. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

**DP Requirement:** 80% attendance at tutorials and ward activity, completion of the list of skills training at the skills laboratory of UKZN. Attendance of one after hours call from 16:00pm to 22:00pm (6 hours) for Anaesthetics.
satisfactory Case Reports for Anaesthetics. Attendance of one after hours call 16:00 to 22:00 (6 hours) for Orthopaedics in the first week. Completion of 2 orthopaedic case-studies

**Introductory Integrated Medicine**
CMED4II MC (40L-15T-0P-0S-70H-10R-100F-0G-5A-6W-24C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** CMED3MNM1, CMED3RHM2 and CMED3ICM2

**Corequisite:** None

**Aim:** The aim of the module is to introduce the student to the competencies required to become a competent, professional, caring, thinking clinician. The objectives of the Introductory Integrated Medicine module in fourth year is to introduce to the student the clinical skills and knowledge required for an understanding of internal medicine. The course will build on an introduction to clinical medicine module taken in the third year. Clinical Teaching and Lectures will focus on the cardiorespiratory, gastrointestinal, infective and central nervous system. The principal objectives are:

- Revision and consolidation of the techniques of the interviewing and physical examination of patients learned previously;
- Consolidation of the student’s understanding of a range of common medical disorders encountered in the modules in the first three years and extension of this to a broader spectrum of disorders;
- Confidence in combining the findings on the patient interview with this theoretical knowledge of disease via a process of clinical reasoning to construct an appropriate problem list;
- Confidence in presenting and discussing patients and their problems;
- Competence in the investigation and basic management of common or important medical disorders as outlined in the core syllabus.

**Content:** Relevant clinical problems and Core Competencies falling within the ambit of Introductory Integrated Medicine. Students will be introduced to common clinical presentations related to the following systems and conditions i.e. Cardiovascular, Respiratory, Gastrointestinal, Central Nervous System, Endocrine, Rheumatology, haematology, dermatology, geriatric medicine, nephrology and infectious diseases including Acquired Immune deficiency Syndrome (AIDS).

**Practicals:** None

**Assessment:** The following requirements need to be completed during the 6 week period for a student to proceed to

Integrated Medicine 2 (these requirements will be recorded in the students’ log book):

- A minimum of 2 clinical cases to be presented during scheduled tutorials;
- A minimum of clinical 4 cases on to be clerked and presented Intake / Post ward rounds;
- Observe and interpreted at least a minimum of 2 lumbar punctures and 2 ascitic/pleural taps;
- Able to perform and interpret 3 electrocardiograms. All the above will need to be signed out by the consultant in charge to pass the module.

**DP Requirement:** 80% attendance at all scheduled small group teaching and learning activities. The submission of a completed logbook at the end of the module. All students to write the one formative multiple choice question theory test.

**Integrated Medicine 1**
CMED4IM MC (20L-15T-0P-0S-40H-20R-105F-0G-40A-6W-24C)

**Prerequisite Modules:** CMED4II; CMED3MN; CMED3RH; CMED3IC; CMED3E2

**Corequisite:** None

**Aim:** The aim of the module is to introduce the student to the competencies required to become a competent, professional, caring, thinking clinician. The course will build on an introduction to clinical medicine taken in the third year. The principal aims are:

- Revision and consolidation of the techniques of the interviewing and physical examination of patients learned previously;
- Consolidation of the students understanding of a range of common medical disorders encountered in the modules in the first three years and extension of this to a broader spectrum of disorders;
- Confidence in combining the findings on the patient interview with this theoretical knowledge of disease via a process of clinical reasoning to construct an appropriate problem list, Confidence in presenting and discussing patients and their problems, Competence in the investigation and basic management of common or important medical disorders as outlined in the core syllabus.

**Content:** Relevant clinical problems and Core Competencies falling within the ambit of Introductory Integrated Medicine. Students will be introduced to common clinical presentations related to the following systems and conditions i.e. Cardiovascular, respiratory, gastrointestinal, central nervous system - rheumatology, endocrinology, and nephrology, dermatology, geriatric, haematology and infectious diseases including acquired immune deficiency syndrome (AIDS).

**Practicals:** None

**Assessment:** Clinical 100%: Will consist of the following assessments of 20% each [3 x Directly observed short cases (DOSCE) (20x3) = 60% - Portfolio assessment 20%, Dermatology OSCE 20%. To pass the internal medicine
component the student must: Obtain a final mark of at least 50%, Meet the subminimum criteria as follows: Must obtain 50% aggregate in the internal medicine assessments (Portfolio and 3 DOSCE) overall, Must pass 4 out of 5 assessments (3 DOSCE; portfolio assessments and dermatology OSCE). Supplementary assessments will be granted as follows: All components will be reassessed if a student fails with less than 50% overall; The portfolio and 3 DOSCE cases will be repeated only if the student failed the examination based on subminimum criteria; With regard to subminimum, a student will repeat the entire exam if he/she failed dermatology as one of the assessment or the internal medicine assessment (Portfolio and DOSCE) only if passed dermatology. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

**DP Requirement:** 80% attendance at all scheduled small group teaching and learning activities. The submission of a completed logbook at the end of the module. All students to write two formative multiple choice question theory tests

**Integrated Obstetrics and Gynaecology 1**

CMED4IO MC (OL-20T-0P-20S-40H-20R-105F-0G-35A-6W-24C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** CMED3MN M1, CMED3RHM2, CMED3ICM2 and CMED3E2.

**Corequisite:** None

**Aim:** Reinforce the skills learned in the first 3 years of study, Equip the student with the clinical skills specific to Gynaecology which are necessary for their further development during the clinical years of study and on completion of the MBChB. Enable students to take a detailed and relevant history, perform a competent general and systemic physical examination and interpret the physical signs elicited. Understand the patho-physiological basis of these symptoms signs Provide differential diagnoses, Request and interpret routine and special investigations.

**Content:** The module will build on students’ exposure and competence level from the previous exposure to this discipline. It is expected that the students will achieve a firm foundation (with regard to history, physical examination, investigations) in each component of this discipline, Enable them to arrive at an appropriate plan of management of the common conditions encountered at a district level. Students will be able to diagnose and manage specific core conditions as published in the log-book. Students will rotate through the various components (lying-in ward, gynae outpatient’s clinics, gynae wards, theatre and family planning clinics, & TOP clinic) during their stay in the discipline. Further it is the student’s responsibility to build on their knowledge of isiZulu in order to interact with patients effectively.

**Practicals:** None

**Assessment:** There will be: Clinical and Written assessments •Clinical Assessment : 50% - BLOCK ASSESSMENT (20%) - OSCE (30%) A. BLOCK assessment 20% a.Logbook 10% b.Progressive 10% c.Portfolio 30% d.OSPE + VIVA + case presentation 50% B. OSCE 30% There are 3 individual assessments which need to passed independently with a subminimum of 50% (i)block mark=20% of overall mark; (ii) clinical (OSCE) =30% and (iii)written (theory / SBA)=50%. The "block mark" is made up of progressive assessment (20%) + “in block assessment” = portfolio review (25%) + OSPE (30%) + Viva (25%). Progressive assessment includes logbook + attendance (5%) + in block case presentation (15%). A student must obtain as subminimum of 50% “block mark” to sit for the exam (OSCE and Theory) Students will be required to take supplementary assessments only in the component (Clinical or Written) of the assessment which was failed. Within each component, all subcomponents will be retaken. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form •Written assessment (multiple choice questions) 50%

**DP Requirement:** •80% attendance at all scheduled small group teaching and learning activities. •The submission of a completed logbook at the end of the module. A student will attain a DP if he / she meets ALL of the following criteria (i) 80% attendance at all scheduled small group teaching and clinical learning activities, (ii) the submission of a completed logbook at the end of the module, (iii) passes the “block mark” by 50%, otherwise they will not be allowed to sit for the OSCE and theory exam. A student who fails to obtain a DP will be required to repeat the entire block of 6 weeks.

**Integrated Primary Care 1**

CMED4PC MC (OL-20T-0P-30S-40H-10R-105F-0G-35A-6W-24C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** CMED3MN M1, CMED3RHM2, CMED3ICM2 and CMED3E2

**Corequisite:** None

**Aim:** To introduce students to an integrated approach to managing patients in a primary care setting. To provide a foundation of knowledge and skills required for effective professional practice in the domain of Family Medicine
Content: This module will cover topics relating to the following: Levels of care and scope of practice. Family Medicine, General surgery, ENT, Ophthalmology and Basic Ante-Natal Care for primary care practitioners; Communication skills training including brief motivational interviewing; Health promotion and disease surveillance; Functions of the multidisciplinary team; health systems; reflective practice; critical thinking and clinical reasoning.

Practicals: None
Assessment: Continuous Assessment: Portfolio 40% • Summative Assessment 60%, • MCQ (50%) • Practical/Clinical (50%) - comprising at least 10 OSCE stations. The student must obtain an aggregate mark of 50% overall AND must pass each of the components (written and clinical) with a minimum of 50%. Multiple choice assessments may be subject to standard-setting. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. The assessment will be failed if a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

DP Requirement: 80% attendance at all scheduled small group teaching and learning activities. The submission of a completed learning portfolio for this module will include both Clinical cases (completed portfolios cases) and procedures. The submission of a completed logbook at the end of the module.

Child Health 2
CMED5CH MC  
(0L-25T-0P-20S-50H-20R-105F-0G-20A-6W-24C)

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

Prerequisite Modules: CMED4CH
Corequisite: None

Aim: The main aim of this module is to expand the knowledge and skills of the student in child health focusing on Neonatology, ambulatory Paediatrics and general Paediatrics.

Content: The module includes: Ambulatory Paediatrics covering the common acute and chronic childhood illnesses; Knowledge and skills in evaluation and management of normal and sick newborn babies; Emergency triage and treatment of sick children; Holistic approach to childhood illness including history, examination, interpretation of special investigations, differential diagnosis and principles of management; Counselling skills (breaking bad news and palliative care); clinical evaluation of the abused child; and Knowledge of legal aspects of child health including the Child Health Act, taking consent and social grants.

Practicals: Skills laboratory training (practicals) in emergency paediatrics, procedures and neonatal care.

Assessment: Assessment: Theory: 50%; Clinical: 50%. The theory examination will comprise multiple choice questions (T/F, SBA and extended matching questions) and written questions (modified essay questions and short answers). The clinical mark will comprise 20% Block assessment mark; 20% Portfolio mark; 2 clinical stations (60%). To pass the module the student must obtain: A final module mark of 50%; A subminimum of 50% in the written examination; A subminimum of 50% in each the clinical subcomponent assessments - portfolio and the 2 short cases.

DP Requirement: 100% of the scheduled academic day teaching including Neonatal training (KINC) and emergency care (ETAT); at least 80% attendance of the clinical rotations; handing in of 4 completed portfolios at the allocated times; handing in of the logbook with attendance and procedures at the specified time; and completion of the in-block assessment with a minimum of 40%.

Prep. of Intern. Students for SA C Practice 1
CMED5CP MC  
(0L-250T-0P-0S-120H-0R-140F-150G-60A-18W-72C)

Prerequisite Requirement: Completion of 5th year training in Cuba
Corequisite: None

Aim: To consolidate the theoretical and practical training in Medicine received in the Cuban university, contextualize this in the South African health care system, introduce the spectrum of pathology and scope of practice of the South African medical graduate, and prepare the student for the integration into the final year of the South African curriculum. The module will be offered for non-degree purposes.

Content: Students will be introduced to the scope of practice for patient management of the South African population. Essential skills for patient assessment, diagnostic hypothesis generation and therapeutic interventions will be affirmed through patient exposure. Language competence in English and isiZulu required for patient interaction and familiarity
with the graduate competencies applied by students internationally will be emphasized. Students will be introduced and exposed to common clinical presentations related to systems, conditions and procedures in Internal medicine, paediatrics, general surgery, family medicine, mental health and obstetrics and gynaecology. Content will be drawn from adult and paediatric cardiovascular, respiratory, gastrointestinal, endocrine and central nervous systems, infectious diseases including Acquired Immune deficiency Syndrome (AIDS), psychiatric disorders, surgical pathologies, common obstetric and gynaecological disorders, and family planning.

**Practicals:** None

**Assessment:** Assessment is continuous. At the start of each discipline rotation a baseline theory test will be conducted to determine strengths and deficiencies in students’ knowledge on entry into the discipline area. A theory and clinical assessment will be conducted at the end of each discipline rotation to assess student progress and to introduce students to the assessment formats that are in use in the 6th year programme. Pass/fail marks will be not be generated. However feedback following an assessment will be given to each student for developmental purposes.

**DP Requirement:** 80% attendance at all tutorials, intakes/bedside teaching, and departmental teaching sessions.

**Integrated Medicine 2**
CMED5IM MC

**(0L-15T-0P-20S-40H-20R-115F-0G-30A-6W-24C)**

**Prerequisite Requirement:** The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

**Prerequisite Modules:** CMED4IM1

**Corequisite:** None

**Aim:** To reinforce and develop clinical skills specific to the medical discipline of Internal Medicine. To introduce new theoretical concepts and apply these to the development of clinical skills in history- taking and physical examination; appropriate investigations and different diagnosis; holistic management of patients with particular conditions. The role of multi-disciplinary teams is addressed. Effective communication with patients in isiZulu is also required.

**Content:** Students will learn the assessment and management of patients in internal medicine. Students will gain an understanding of common conditions in this module. include in Internal Medicine, Haematology and Dermatology.

**Practicals:** None

**Assessment:** Clinical component: 30% Theory: 70% Dermatology :10%; Internal Medicine 60%. In order to pass Medicine, the Student will have to: Pass with at least 50% overall (Clinical + Theory); Pass the written component with 50% (Internal medicine and dermatology); Pass the internal medicine theory paper with >50%; Pass the clinical component with an aggregate of >50%A student will receive a supplementary examination in the component failed only.

**DP Requirement:** 80% attendance. This module would require the attendance at intakes that would include acute admissions, ward rounds and clinical bedside teaching supervised by qualified personnel in teaching hospital at least once a week after hours. This would include weekend and public holidays, where appropriate.

**Mental Health 1**
CMED5MH MC

**(0L-25T-0P-10S-60H-10R-105F-0G-30A-6W-24C)**

**Prerequisite Requirement:** The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

**Prerequisite Modules:** CMED3MNM1

**Corequisite:** None

**Aim:** To introduce students to the principles, knowledge and skills necessary for effective professional practice in the domain of Mental Health (including psychiatry) and in those disciplines which may contribute to the module. To provide a firm foundation which may be consolidated and extended over subsequent modules such that, at the conclusion of the MBChB programme, the graduate is equipped to function effectively in the internship year.

**Content:** Relevant clinical problems and Core Competencies falling within the ambit of this module relating to patient with a Mental Health Disorder. Relevant technical and other skills necessary for clinical care. Contextualisation of health and disease relevant to the module in terms of family, community, regional, national and global perspectives.

**Practicals:** None
Assessment: Clinical component [60%]=long cases (30%) +Portfolio (30%)] Written exam Component [40%]. Multiple choice assessments will be subject to standard-setting to correct for guess work. Final block mark is calculated as Long case - 30% portfolio exam - 30% Theory (MCQ) - 40%. In order to pass Psychiatry, Students will have to: Pass Clinical +Written. Subminimum for the Written assessments: must have at least 50% in the written component. Subminimum for the clinical assessments: must obtain an average of 50% overall and pass the long case with at least 50%

DP Requirement: The student will be granted a DP certificate if he/she: has at least 80% attendance at all scheduled small group teaching and learning activities; has 80% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at ward rounds and intakes; collaboration with healthcare professionals with respect to the patient management. Duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; duly completes and fulfils all requirements of the portfolio and returns the completed portfolio on the stipulated date and time; duly completes the case presentation as stipulated in the handbook

Mental Health 1
CMED5MH MC

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

Prerequisite Modules: CMED3MM1

Aim: To introduce students to the principles, knowledge and skills necessary for effective professional practice in the domain of Mental Health (including psychiatry) and in those disciplines which may contribute to the module. To provide a firm foundation which may be consolidated and extended over subsequent modules such that, at the conclusion of the MBChB programme, the graduate is equipped to function effectively in Internship.

Content: Relevant clinical problems and Core Competencies falling within the ambit of this module relating to patient with a Mental Health Disorder. Relevant technical and other skills necessary for clinical care. Contextualisation of health and disease relevant to the module in terms of family, community, regional, national and global perspectives.

Practicals: None

Assessment: Clinical component [60%]=long cases (30%) +Portfolio (30%)] Written exam Component [40%]. Multiple choice assessments will be subject to standard-setting to correct for guess work. Final block mark is calculated as Long case - 30% portfolio exam - 30% Theory (MCQ) - 40%. In order to pass Psychiatry, Students will have to: Pass Clinical +Written. Subminimum for the Written assessments: must have at least 50% in the written component. Subminimum for the clinical assessments: must obtain an average of 50% overall and pass the long case with at least 50%

DP Requirement: The student will be granted a DP certificate if he/she: has at least 80% attendance at all scheduled small group teaching and learning activities; has 80% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at ward rounds and intakes; collaboration with healthcare professionals with respect to the patient management. Duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; duly completes and fulfils all requirements of the portfolio and returns the completed portfolio on the stipulated date and time; duly completes the case presentation as stipulated in the handbook

Integrated Obstetrics & Gynaecology - 2
CMED5OG MC

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

Prerequisite Modules: CMED4IO

Aim: To introduce and develop clinical skills specific to the medical discipline of Obstetrics. To introduce advanced theoretical concepts and the development of clinical skills in history- taking and physical examination; appropriate investigations and different diagnosis; holistic management of obstetric patients with particular conditions. The role of multi-disciplinary teams is addressed. Effective communication with patients in IsiZulu is also required.
Content: History taking, examination of patients, investigations, and management with specific attention to antenatal care, intrapartum care, postpartum care and contraception, and emergency obstetrical conditions. Common obstetric problems – infections, hypertensive disorders of pregnancy, medical disorders in pregnancy, obstetric haemorrhage and supportive trans-disciplinary care (dietician, social worker, psychotherapist, occupational therapist) where relevant.

Practicals: None

Assessment: There are 3 individual assessments which need to passed independently: (i) Block mark=20%, (ii) End of block - clinical (OSCE) = 30% (iii) End of block - written (theory / SBA) = 50%. The "block mark" is made up of progressive assessment (20%) + "in block assessment" = portfolio review x1=(25%) + OSPE (30%) + Viva (25%). Progressive assessment includes logbook + attendance (5%) + in block case presentation (15%). There will be one clinical case assessed during the block and one portfolio.

DP Requirement: Satisfactory attendance and performance in the block is essential for a Duly Performed (DP) Certificate. The requirements are: A student will attain a DP if he/she meets ALL of the following criteria: 80% attendance at all scheduled small group teaching and learning activities, the submission of a completed logbook at the end of the module, passes the "block mark" with 50%, otherwise he/she will not be allowed to sit for the OSCE and theory exam. A student who fails to obtain a DP of 50% will be required to repeat the entire block of 6 weeks.

Integrated Primary Care - 2
CMED5PC MC
(20L-20T-0S-40H-20R-95F-20G-25A-7W-24C)

Prerequisite Modules: CMED4PC

Corequisite: None

Aim: The main aim of the module is to build the principles, knowledge and skills necessary for effective professional practice in the domain of Family Medicine.

Content: This module will cover topics relating to levels of care and scope of practice (Primary and District hospital level of care), sexual medicine, palliative care, travel medicine and practice management for primary care practitioners as well as emphasizing communication skills training. Health promotion and disease surveillance, debriefing and reflective practice, functioning within a multi-disciplinary team and ethical issues arising in patient care and clinical decision-making will also be incorporated into the module.

Practicals: None

Assessment: Portfolio (25%); Written Examination (25%); OSCE and Clinical (50%). The student must obtain an aggregate of 50% in the module assessment AND must obtain a subminimum of 50% in each of the components of the examination namely Clinical (OSCE and clinical) and written. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

DP Requirement: 80% attendance at all scheduled small group teaching and learning activities; The submission of a completed learning portfolio at the end of the module; The submission of a completed logbook at the end of the module.

Integrated Surgical Practice - 1
CMED5SP MC
(0L-28T-0P-30H-20R-130F-0G-12A-6W-24C)

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fourth year of the study will be taken before those at the fifth. This notwithstanding, a student with outstanding fourth year modules may register for a fifth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for the module.

Prerequisite Modules: CMED4PC

Corequisite: None

Aim: To reinforce and develop clinical skills specific to the medical discipline of Surgery and may include surgical subspecialties (orthopaedics, ENT, urology and ophthalmology). The aim is to introduce new or strengthen existing theoretical concepts and apply these to the development of clinical skills in history-taking and physical examination; appropriate investigations and different diagnosis; holistic management of patients with particular conditions.

Content: Students will learn the assessment and management of patients in general surgery and the surgical subspecialties. Students will gain an understanding of common conditions in this module and an approach to patient management.

Practicals: None
Assessment: Clinical component: (long case in surgery) 60%; MCQ (Combined with general surgery and subspecialties) 40%. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

DP Requirement: Satisfactory attendance and performance in the block is essential for a Duly Performed (DP) Certificate. The requirements are: 80% attendance at all tutorials, intakes/bedside teaching, and clinical teaching sessions per discipline. Passes the formative Block mark (subminimum 50%). Duly completes and fulfills all requirements of the logbook and returns the completed logbook on the stipulated date. Submission of orthopaedics case-based portfolio as a logbook requirement.

Child Health - 3
CMED6CH MC (6L-24T-0P-24S-18H-18R-180F-0G-50A-7W-32C)

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fifth year of the study will be taken before those at the sixth. This notwithstanding, a student with outstanding fifth year modules may register for a sixth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for that module.

Prerequisite Modules: CMED5CH
Corequisite: None

Aim: To give the student practical experience in the comprehensive management of the patient and community in the discipline of Paediatrics and Child Health, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.

Content: The module will focus on history taking, examination, investigations and the multidisciplinary management and follow up of paediatric patients. Emphasis will be placed on perinatal history, Road to Health Chart, developmental and immunizations, feeding, fluid and electrolyte balance and drug management. Specific attention is paid to the following aspects: Neonatal conditions, Gastrointestinal, respiratory, cardiovascular, genetic, endocrine, musculoskeletal and nutritional problems, renal diseases, common paediatric problems- neurological, blood diseases, infectious diseases including TB, HIV and associated conditions, common emergencies in neonatal and paediatric practice and ethics and therapeutics relevant to paediatrics.

Practicals: None

Assessment: There are three individual components that need to be passed independently. Continuous assessment (in block) – 30%; Clinical assessments-40%; Theory assessments-30% (MCQ and written paper). The Clinical assessments are further subdivided into: 3 short cases (Directly observed clinical cases 10% each)-30%; Portfolio 10%. Requirements to pass: Subminimum for the continuous assessment is at least 50% overall in order to obtain a DP. Subminimum for the module 50%; Subminimum for the theory assessment is 50%. Subminimum for the clinical assessments: the student must: a) pass three out of 4 clinical cases (3 DOCC and the composite portfolio clinical examination forms the fourth clinical case); b) must obtain an average of 50% in the four clinical cases.

DP Requirement: The student will be granted a DP certificate if he/she; i) has at least 80% attendance at all scheduled small group teaching and learning activities; ii) has 100% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at intakes, the complete management of patients in ward or outpatients' departments; collaboration with healthcare professionals with respect to the patient management. iii) duly completes and fulfills all requirements of the logbook and returns the completed logbook on the stipulated date; iv) duly completes and fulfills all requirements of the portfolio and returns the completed portfolio on the stipulated date and time; v) passes the continuous assessment with at least 50%

Integrated Medicine - 3
CMED6IM MC (4L-30T-0P-20S-18H-18R-180F-0G-50A-7W-32C)

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fifth year of the study will be taken before those at the sixth. This notwithstanding, a student with outstanding fifth year modules may register for a sixth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for that module.
Prerequisite Modules: CMED5IM
Corequisite: None
Aim: To give the student practical experience in the comprehensive management of the patient and community in the discipline of Internal Medicine, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.
Content: Student will be exposed to clinical presentations related to the following systems and conditions. All the different sub disciplines in medicine will be covered i.e. Cardiovascular, Respiratory, Gastrointestinal, Central Nervous, Rheumatology, Endocrine, Renal, Infectious, Haematological, Dermatological, Geriatrics and Medical Emergencies. Particular emphasis will be placed on common medical conditions eg. Acquired Immune deficiency Syndrome (AIDS), Hypertension, diabetes mellitus, ischemic heart disease, common infections and common dermatoses. In addition, students are provided with a core list of common medical conditions that they are required to know.
Practicals: None
Assessment: There are three individual components that need to be passed independently; Continuous assessment (in block) (-30%); Clinical assessments (-40%); Clinical assessments (40%) comprises of Dermatology clinical 10% (1st case); 3 Directly Observed Clinical cases 10% each. Theory assessments 30% (MCQ paper). Subminimum for the module: each assessment must be passed independently. Subminimum for the continuous assessment: must have at least 50% overall. Subminimum for the Theory assessment: must obtain at least 50% in the theory component. Subminimum for the clinical assessments: the student must: a) pass at least 3 out of 4 clinical cases (includes dermatology assessment); b) pass at least 2 out of 3 Directly observed clinical cases, with an average of 50% or more for these three cases; c) obtain at least 50% for the entire clinical component. Students will be required to take supplementary assessments only in the component of the assessment which was failed. Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. Students who fail the Continuing and Professional Practice continuous assessment component of the final year modules are required to repeat the whole module. There is no supplementary assessment option. If a student fails a module, the student shall not repeat the failed module in the same semester, with the exception that a student in the final year with one module outstanding may reregister for that module in the same semester for the purposes of completing the degree. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.
DP Requirement: The student will be granted a DP certificate if he/she: i) Has at least 80% attendance at all scheduled small group teaching and learning activities; ii) Has 100% attendance at clinical duties. This entails scheduled and unscheduled patient encounters and includes the following: attendance and participation at intakes, management of patients in the ward and outpatient duties; iii) Duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; iv) Duly completes and fulfils all requirements of the portfolio and returns the completed portfolio on the stipulated date; v) Passes the continuous assessment with at least 50% overall.

Integrated Obstetrics and Gynecology - 3
CMED6IO MC (OL-24T-60P-24S-28H-20R-60F-84G-20A-7W-32C)
Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fifth year of the study will be taken before those at the sixth. This notwithstanding, a student with outstanding fifth year modules may register for a sixth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for that module.
Prerequisite Modules: CMED5OG
Corequisite: None
Aim: To give the student practical experience in the comprehensive management of the patient and community in the discipline of Obstetrics and Gynaecology, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.
Content: History taking, examination of patients, investigations, and management with specific attention to antenatal care, intrapartum care, postpartum care and contraception, and emergency obstetrical and gynaecological conditions.
Common obstetric and gynaecological problems – infections, gynaecological cancers, infertility, reproductive failure; prevention, specific and supportive, trans-disciplinary (dietician, social worker, psychotherapist, occupational therapist) where relevant.

**Practicals:** None

**Assessment:** Assessment: There are two individual components that need to be passed independently, ie “block mark” and “final Assessment mark”: 1. Block mark – 30% towards the final exit mark. This is made up of Progressive assessment (20%), and “unit assessment (80%)”. The latter is made up of case presentation (30%) and OSPE (30%), assessed at midblock and end of block unit assessment. Subminimum for the block mark: must have at least 50% overall. 2. Final Assessment -70% of the exit mark (OSCE=35% and OSPE=35%) 3.Subminimum for the module: each component must be passed independently To pass CMED610, student must obtain 50% (composite) and 50% in the OSCE as well as 50% in the OSPE Subminimum for the end-of-block assessments: i) must pass the End-of Block Assessment with at least 50% overall; ii) must obtain at least 50% in the Obstetrics OSPE; iii) must obtain at least 50% in the Gynaecology OSPE; Students will be required to take supplementary assessments only in the component of the assessment which was failed. Within each component, all subcomponents will be retaken.

**DP Requirement:** The student will be granted a DP certificate if he/she i) has at least 80% attendance at all scheduled small group teaching and learning activities; intakes/bedside teaching, and meetings – unit / perinatal and departmental “teaching” meetings. ii) has 100% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at intakes, the complete management of patients in ward or outpatients’ departments; collaboration with healthcare professionals with respect to the patient management. iii) duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; v) passes the block assessment with at least 50% Students pursuing an approved research programme equivalent to a

**Integrated Surgical Practice - 2**

**CMED615 5S**

**Prerequisite Requirement:** The student will attempt modules on the principle that those assigned to the fifth year of the study will be taken before those at the sixth. This notwithstanding, a student with outstanding fifth year modules may register for a sixth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for that module.

**Prerequisite Modules:** CMED610

**Corequisite:** None

**Aim:** To give the student practical experience in the comprehensive management of the patient and community in the discipline of Surgery, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.

**Content:** The student must demonstrate the knowledge of the basic investigations and management of all patients presenting with surgical conditions. History taking, examination of patients, investigations and management, with specific attention to: trauma and emergency care, gastrointestinal and nutritional problems, critical care, and acute and chronic vascular pathology, interpreting special investigations e.g. x-rays, CAT Scan, ultra sound examinations, common investigative techniques should be witnessed and if possible performed under supervision (upper endoscopy, PNAC, ERCP, Colonoscopy, barium studies). This module consists almost entirely of clinical work under expert supervision (at least 180 hours), which includes assisting at operations. In addition, students will acquire skills in basic surgical procedures and post-surgery rehabilitative patient care. Orthopaedics - Examination-Bone, Joint, Tendon, and soft tissue and the diagnosis and management of related conditions.

**Practicals:** None

**Assessment:** Both formative and summative assessments are used. In-block assessment where students receive feedback on their clinical case presentations are formative. There are three individual components that need to be passed independently. Continuous assessment (in block): 30% = clinical evaluation (Must pass 2 out of 3 surgical cases and orthopaedic portfolio judged satisfactory) and professional practice assessment Contribution to professional practice assessment - General Surgery: Orthopaedics= 70:30 End of block Clinical assessment 40% (general surgery long case, viva on general surgery portfolio, Orthopaedic clinical assessment = 3 x short cases) General Surgery: Orthopaedics= 70:30 Written assessment 30% : General Surgery OSCE + 1hour (50 mark) Orthopaedics SBA MCQ test General Surgery: Orthopaedics= 70:30 Final mark •Continuous assessment (in block): 30% •Clinical assessments:
Mental Health 2
CMED6MH MC

Prerequisite Requirement: The student will attempt modules on the principle that those assigned to the fifth year of the study will be taken before those at the sixth. This notwithstanding, a student with outstanding fifth year modules may register for a sixth year module if this is recommended for purposes of efficient progress through the programme and the student meets the prerequisites for that module.

Prerequisite Modules: CMED5MH

Corequisite: None

Aim: To give the student practical experience in the comprehensive management of the patient and community in the discipline of Psychiatry, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.

Content: The main focus of this module is on the general principles governing the prevention, diagnosis and treatment of psychiatric disorders. The module will emphasize psychiatric interviewing skills, signs and symptom of mental illness and the diagnostic criteria for mental illness according to the Fifth Edition of the American Psychiatric Associations Diagnostic and Statistical Manual of Mental disorders (DSM V). Use of Psychotropic medications in accordance with the Essential Drug List Programme will also be covered. In addition, the assessment and management of psychiatric emergencies – the aggressive and suicidal patient will be given particular attention. The laws and ethics which are necessary for the practice of psychiatry in South Africa and the utilization of resources within institutional and community health care settings will be covered. Promotion of mental health and prevention of psychiatric illness will be emphasized throughout the module.

Practicals: None

Assessment: There are three individual components that need to be passed independently. Continuous assessment (in block) – 30%; Clinical assessments-40%; Written assessments-30% (MCQ paper SBA paper). The continuous assessments comprise: a) A directly observed assessment of attitude, patient engagement and verbal communication skills - 5%; b) A directly observed assessment of history taking skills – 5 %; c) Long case examination – 20%. The Clinical assessments comprise: OSCE -20%; Portfolio 20%. Multiple choice assessments are subject to standard-setting to correct for guesswork. Subminimum for the module: each assessment must be passed independently. Subminimum for the continuous assessment: must have at least 50% overall Subminimum for the Written assessments: must have at least 50% in the written component. Subminimum for the clinical assessments: must obtain an average of 50% overall. Students will be required to take supplementary assessments only in the component of the assessment which was
Components are defined as Written and Clinical. Within each component, all subcomponents will be retaken. Students who fail the Continuing and Professional Practice continuous assessment component of the final year modules are required to repeat the whole module. There is no supplementary assessment option. If a student fails a module, the student shall not repeat the failed module in the same semester, with the exception that a student in the final year with one module outstanding may reregister for that module in the same semester for the purposes of completing the degree. In the event that a student fails a module which subsequently is modified in terms of content, expectations or assessment, the student shall be required to repeat the module in the modified form.

**DP Requirement:** The student will be granted a DP certificate if he/she: i) has at least 80% attendance at all scheduled small group teaching and learning activities; ii) has 100% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at intakes, the complete management of patients in ward or outpatients’ departments; collaboration with healthcare professionals with respect to the patient management; iii) duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; iv) duly completes and fulfils all requirements of the portfolio and returns the completed portfolio on the stipulated date and time; v) passes the continuous assessment with at least 50%.

**Integrated Primary Care - 3**
CMED6PC MC

Prerequisite Modules: CMED5IM; CMED5IO; CMED5CH; CMED5MH

Corequisite: None

**Aim:** To give the student practical experience in the comprehensive management of the patient and community in the discipline of rural health, by participating in the provision of health care as an integral member of the health care team, leading to consolidation of the knowledge, skills and behaviours required of the graduating student entering medical practice. In terms of the levels of proficiency proposed by Miller (Miller GE: The assessment of clinical skills/competence/performance. Academic Medicine 1990, 65:S63-S67), this module stresses the highest level, that of Does, in addition to the levels of Knows, Knows How and Shows How stressed in the preceding years of study.

**Content:** Application of the Principles of Family Medicine and Primary Health Care; Experiential learning within the context of rural health; Lifestyle issues, patient advocacy and common ethical issues; Plural health system and complementary medicine; Resource management (including appropriate investigation and interpretation); Quality improvement and quality assurance; Practice management and health economics for district and primary health care.

**Practicals:** Students will undertake field trips from their base hospitals to peripheral primary health care clinics, non-governmental organisations, general practitioners, traditional healers, district health services, community and family visits and other governmental services depending on the available resources.

**Assessment:** There are three individual components that need to be passed independently. Continuous assessment (in block)-30% (QIP 10%, Logbook 20%); Portfolio assessments and oral at the end of - 40% (including viva); Written-30% (MCQ paper) Subminimum for the module: each assessment must be passed independently. Subminimum for the continuous assessment: must have at least 50% overall. Subminimum for the written and oral assessments: must obtain at least 50% in the written component. Subminimum for the portfolio assessments: the student must obtain at least 50% in the portfolio assessment.

**DP Requirement:** The student will be granted a DP certificate if he/she: i) has at least 80% attendance at all scheduled small group teaching and learning activities; ii) has 100% attendance at clinical duties. These are scheduled and unscheduled patient encounters and includes: attendance and participation at intakes, the complete management of patients in ward or outpatients’ departments; collaboration with healthcare professionals with respect to the patient management. iii) duly completes and fulfils all requirements of the logbook and returns the completed logbook on the stipulated date; iv) duly completes and fulfils all requirements of the portfolio and returns the completed portfolio on the stipulated date and time; v) passes the continuous assessment with at least 50%.
Introduction to Audiology and Assessment
CPAU141 W2
Prerequisite Requirement: None
Corequisite: None
Aim: To provide learning opportunities for students to facilitate an understanding of the:
• Fundamental concepts relating to acoustics and psychoacoustics.
• Nature, etiology, manifestation and management of auditory pathology.
• Hearing assessment using basic audiometric procedures with specific emphasis on quantifying and describing hearing loss.
• Principles underlying special audiomirest tests, special tests to critically discuss testing procedures and to interpret the results obtained from the administration of special test battery.
Content: Hearing sciences, Auditory pathology, Introduction to audiology, Diagnostic audiology, Ototoxicity, TB & HIV related hearing loss monitoring. Basic South African and International hearing screening and procedures
Practicals: 12 practical sessions of two hours duration over the course of a semester. These practical would involve demonstration of audiometric assessment procedures.
Assessment: Formative (40%) and summative (60%) Formative includes: 2 written test (25% each), 1 (30%) assignment & 1 (20%) practical assessment Summative includes: 1 (100%) written (2 hour) exam
DP Requirement: Formative mark of ≥40%

Audiological Principles and Practices for SLT
CPAU142 W2
Prerequisite Requirement: None
Corequisite: None
Aim: This module encapsulates the basic audiology specific content that is aligned with the speech language therapist’s scope of practice. These include basic understanding of audiometric principles and procedures, fundamental concepts relating to acoustics and psychoacoustics, audiometric screening and the nature and management of auditory pathology.
Content: The module will comprise of the following content areas: Audiometric principles and procedures Acoustics and psychoacoustics Auditory pathology Behavioural screening procedures and protocols.
Practicals: Six practical’s over the semester (6 x 3 hours) involving demonstration of audiometric protocols and procedures for hearing screening as per the scope of SLT.
Assessment: Formative (40%) and summative (60%) Final Formative Mark comprises of 2 written test = (2x 25%); 1 assignment = (1X 30%), 1practical test (20%) Summative comprises of a two hour written examination
DP Requirement: Formative mark of ≥40%

Clin Prac: Behavioural Screening Audiometry
CPAU201 WY
Prerequisite Requirement: The student must have met DP requirements for CPAU213W1
Corequisite: None
Aim: The aim of this module is to enable the SLP to screen the hearing of clients who present with SLP problems by means of behavioural screening techniques. This includes all clients that comprise the SLP case load and includes clients across the age spectrum and in various clinical contexts.
Content: Plan, initiate and conduct a needs analysis of clients requiring audiometric screening, plan identification programmes, to execute identification programmes, to manage and monitor the identification programmes. Make appropriate referrals, compile and maintain records.
Assessment: Continuous assessment (100%) comprising of 1 observation report (10%), 1 lab work assignment (10%), 1 hearing screening assignment (10%), 2 clinical evaluations (2×35%) 
DP Requirement: None

Clinical Practice: Audiological Ass. for SLT
CPAU242 W1
Prerequisite Modules: CPAU142
Corequisite: None
Aim: To enable the SLT to screen the hearing of all clients that present with speech and language problems by means of behavioural screening techniques across the age spectrum and in various clinical contexts.
Content: Plan, initiate and conduct a needs analysis of clients requiring audiometric screening, Plan the hearing screening programmes, Execute the hearing screening programmes, Manage and monitor the screening programmes
Practicals: None
Assessment: Continuous assessment =100% that comprise Group Implementation and Evaluations of the Hearing Screening Programme at two different clinical sites -(2×20%) and Individual Clinical Evaluation (ICE) – (2×30%)
DP Requirement: Students must fulfil a minimum of 50% of the total clinical contact hours for the module

Augmentative and Alternative Comm & D Culture
CPAU243 W1
(39L-0T-20P-5S-49H-26R-0F-0G-21A-15W-16C)
Prerequisite Modules: CPAU141
Corequisite: None
Aim: To facilitate an understanding of Deaf culture and Augmentative and Alternative communication.
Content: This module covers all aspects of Deaf culture as well as Augmentative and Alternative communication aspects of assessment and management
Practicals: Total of 16 hours of practical demonstrations for sign language. Students are then assessed after these practical sessions which encompass a part of their final year mark. Students are also required to do a one day, 4 hour site visit, where they can observe the use of Augmentative and Alternative Communication. They are then required to submit a report following this site visit, for which they are assessed.
Assessment: Formative Assessment (40%) + Summative assessment (60%)=Final mark Formative assessment comprising of 2 Assignments (2 x 10%), 2 theory tests (50%) and practical test (30%) Summative assessment comprising of a two hour examination. A sub minimum mark of 40% is required for the examination
DP Requirement: Formative assessment = 40% or greater

Paediatric Audiological Assessment
CPAU244 W2
(39L-0T-22P-0S-38H-30R-0F-0G-31A-15W-16C)
Prerequisite Modules: CPAU141
Corequisite: None
Aim: To develop knowledge and understanding of the types of procedures utilised in the auditory assessment of infants and young children (0-5 years) as well as the difficult to test population and to develop knowledge and understanding of the principles of early communication intervention including early identification and assessment of infants and toddlers.
Content: Development of the auditory mechanism, hearing disorders in children, paediatric hearing screening, Introduction to early communication Intervention principles, early identification and intervention issues, behavioural hearing testing methods with children (0-5 years) and children with additional impairments.
Practicals: 3 hours (4x45 minutes) -Visit to Neonatal ICU facility to observe young infants who require early communication intervention and early identification of communication difficulties. 3 hours (4x45 minutes) - Visit to a preschool facility – observation and interaction of typically developing children with view to understanding the influence of hearing on communication. 3 hours (4 x45 minutes)-Visit to school for the hearing impaired, with view too understanding the impact of hearing loss on communication 2 hours (2 x45 minutes) - (Observation of Paediatric testing – DVD presentation. 3hours (4x 45 minutes) -Practice of screening tests – skills lab and lab work. 8 hours (10x 45 minutes)- Group work: practice of test procedures and observation of OAES and ABR procedures in the campus based clinic.
Assessment: Formative mark (40%) + Summative mark (60%)= Final mark Formative Mark comprises of 2 tests (2 x 30%) and an assignment (40%). Summative comprises of a two hour written examination A sub minimum mark of 40% is required for the examination
DP Requirement: Formative mark of ≥40%

Clin Practice : Audiological Assessment
CPAU251 W1
(0L-20T-0P-0S-20H-11R-104F-0G-5A-15W-16C)
Prerequisite Modules: CPAU141
Aim: To develop clinical skills in the evaluation and management of hearing disorders in the adult population, using conventional and specialized diagnostic audiometric tests and planning and executing a primary prevention program for hearing health care at various sites/venues.

Content: Planning and executing a primary prevention programme for hearing health care. Conduct full audiological assessments and make recommendations and referrals for clients/patients.

Practicals: 4 hour weekly clinical sessions on and off campus sites. Students conduct supervised clinical assessments and observations. Students also complete case studies and case presentations as part of their clinical contact. Primary prevention programs will be carried out at different venues on a weekly basis.

Assessment: 100% continuous assessment comprising of: 1X Clinical evaluations (50%) + 1X Clinical reports (20%) + Case presentation (10%) + Lab/paper cases (5%) + Observation reports (5%) + Primary prevention and promotion program (10%)

DP Requirement: Students must fulfil a minimum of 50% of the total clinical contact hours for the module.

Clinical Practice: Paediatric & Special Popul
CPAU321 W1
Prerequisite Modules: CPAU202W2, CPAU211W1
Corequisite: None

Aim: To provide clinical learning opportunities and supervision to develop clinical skills/competencies in the assessment and management of the paediatric and difficult-to-test population

Content: Case history taking, modification of conventional test battery including PCA, VRA, TROCA, BOA, and WIPi; categories of difficult-to-test clientele, speech audiometry, modification of masking techniques, test interpretation, test methodologies and equipment, objective and subjective measures for paediatric and difficult-to-test clients, reliability and validity issues, early identification and screening, recording of test results, evaluation of procedures, report writing, special tests for functional hearing loss, & early identification of hearing loss.

Practicals: Exposure to test equipment and a variety of clients in the paediatric clients

Assessment: 100% continuous assessment, clinical evaluation (x3) 60% , reports (x3) 20%, clinical test (x10) 15%, case presentation (x1) 5%.

DP Requirement: None

Clinical Practice: Rehabilitation Technology
CPAU322 W2
Prerequisite Requirement: The student needs to have met the DP requirement for CPAU301
Corequisite: None

Aim: To develop clinical competencies in the selection, evaluating, and monitoring of rehabilitation technology, especially hearing aids, and counselling for the hearing impaired population.

Content: Electro-acoustics and hearing aids, assistive devices, technological advances earmould impression taking and modification, case interview and needs analysis; hearing instrument selection and evaluation methodologies, counselling and orientation, procurement options of instruments, ethical issues, special applications of amplification, clinical research in the S. A. context, report writing and administration

Practicals: Orientation to hearing aids, associated technology and equipment used in the evaluation of candidates for hearing instruments and assistive devices.

Assessment: Continuous assessment = 1 X Oral clinical practical test (30%), 1 X clinical case presentation (5%), 2 x clinical evaluation (50%) ( 1 group 15% and 1 individual 35%), 1 X written clinic test (10%), Report writing (5%)

DP Requirement: CONTINUOUS ASSESSMENT

Rehabilitation Technology
CPAU341 W1
Prerequisite Requirement: None
Corequisite: None

Aim: To provide learning opportunities to facilitate an understanding of the communicative needs of the hearing impaired and deaf population, and to select, evaluate and monitor the use of rehabilitative technology

Content: Hearing aids, Cochlear implants, Middle ear implants, Brainstem implants, Assistive listening devices
Practicals: There will be 12 practical sessions of two hour duration. These will include orientation to hearing aids (1 session), orientation to instrumentation used to select hearing aids (1 session), orientation to the procedures and equipment used to evaluate and verify the use and benefit of the hearing instrument (2 sessions), earmold impression taking (2 sessions), earmold modifications (2 sessions), orientation to cochlear implants (1 session), cochlear mapping (2 sessions), and electrode testing (1 session).

Assessment: Formative assessment (40%) + summative assessment (60%) = final mark
Formative Assessments: two tests (35% each) and a group assignment (30%). Summative assessment: 2 hour examination (40%) A sub minimum mark of 40% is required for the examination

DP Requirement: Formative mark of ≥40%

Aural Rehabilitation for SLT
CPAU343 W1
Prerequisite Modules: CPAU404W2, CPAU402WB, CPAU411W1
Corequisite: None
Aim: To provide learning opportunities for SLP students to facilitate the understanding of assessment and management issues and communication methodologies pertaining to aural rehabilitation of the preschool and school aged hearing impaired child.
Content: Aural Rehabilitation for (Children) with hearing loss using Oralism as a communication approach
Practicals: Visits to 4 schools for the deaf for a duration of 2 hours each, 10 (1 hour) Demonstrations of test procedures
Assessment: Formative (40%)+ Summative(60%)= Final Mark
Formative assessment will comprise of the following: 2 x 1.30min tests (60%) 1 x assignment (40%) A sub minimum mark of 40% is required for the examination

DP Requirement: Formative Mark of 40%

Auditory Processing Disorders
CPAU344 W2
Prerequisite Requirement: None
Corequisite: None
Aim: To provide students with learning opportunities to facilitate a theoretical understanding of the nature and practical management of central auditory processing disorders.
Content: Development of the central auditory nervous system Theories of auditory processing Screening for APD in diverse caseloads Assessment and management of auditory processing disorders.
Practicals: One hour weekly practical orientation assessment tools, assessment procedures and interpretation of tests.
Assessment: Formative 40% + summative assessment 60%
Formative: Two tests (2×30%) and one assignment weighted (40%) Summative=60% 1 x 2 hour written exam A sub minimum mark of 40% is required for the examination

DP Requirement: Formative mark of ≥ 40%

Clinical Practice: Paediatric Assessment
CPAU345 W1
Prerequisite Modules: CPAU244
Corequisite: None
Aim: To provide clinical opportunity and supervision to develop clinical skills or competencies in the assessment of the paediatric (0-5 years) and the difficult-to-test client
Content: Case history taking, protocols and procedures for the assessment of hearing of 0-5 year old child using behavioural methods, modification of conventional test battery test interpretation, protocols and procedures for the assessment of hearing using behavioural methods for and difficult-to-test clients, early identification and screening of young infants and school age children, communication of results report writing.
Practicals: None
Assessment: Formative Assessment = 100% which comprises of 2 Direct clinical assessments (40%) 2 co-clinician assessments (10%), 2 screening assessments (10%) 2 reports (10%), a case presentation (10%) and a clinical test (20%)

DP Requirement: continuous assessment
Aural Rehabilitation
CPAU351 W1
(30L-0T-22P-0S-60H-15R-0F-20G-13A-15W-16C)
**Prerequisite Modules:** CPAU243
**Aim:** To provide learning opportunities to facilitate the understanding of assessment and management issues and methodologies pertaining to aural rehabilitation of individuals with hearing impairment.
**Content:** The module includes: Aural Rehabilitation (Children) Aural Rehabilitation (Adults)
**Practicals:** Visits to 4 schools for the deaf for a duration of 2 hours each. 10 (1 hour) Demonstrations of test procedures
**Assessment:** Formative (40%) + Summative (60%) = Final Mark Formative assessment will comprise of the following: 3 x 1.30min tests (60%) 2 x assignment (40%) Summative assessment will comprise of the following: Two hour written examination (60%)
**DP Requirement:** Minimum mark of 40%

Electrophysio & Vesti Assessment & Mgmt
CPAU352 W2
(39L-0T-18P-18S-45H-18R-0F-10G-20A-15W-16C)
**Prerequisite Modules:** CPAU241,CPAU244
**Aim:** To provide learning opportunities to students in order to define, describe and explain concepts and theories that underlie AEP testing. To practice objective testing procedures based on electrophysiological testing and to facilitate the development of competencies in preparation for independent practice in Audiology
**Content:** Anatomical and physiological background underlying Auditory Evoked Potentials testing. •Theory of the Auditory Evoked Potentials test battery. •Understanding of clinical application of Auditory Evoked Testing.
**Practicals:** 39 practical demonstrations for the year for a duration of one hour, which occurs at the Audiology clinic (UKZN). Students will be able to operate the equipment and practice testing by demonstrating on colleagues.
**Assessment:** Formative assessment = 40% of Final mark: Tests x 2 = 60% Assignment (x 1)= 40% Summative assessment=60% of final mark: 2 hour written examination at end of module. A sub-minimum of 40% will apply in the exam.
**DP Requirement:** ≥40%

Research Practice
CPAU400 W0
(8L-26T-0P-6S-160H-0R-0F-20G-100A-30W-32C)
**Prerequisite Modules:** HLSC340, all Level 3 Audiology modules
**Corequisite:** None
**Aim:** To familiarize students with basic research principles and methods so as to conduct research in the field of Audiology. To promote interest, develop capacity in the area of research within the field and obtain evidence based and current literature in the field of Audiology as well as to generate research which is contextually relevant.
**Content:** Identification of a research gap/need, construction of a research question, proposal development, data collection, data analysis and research report writing, disseminate study findings through an oral presentation.
**Practicals:** None
**Assessment:** Evaluation of a written research report is obtained by averaging the marks obtained from the internal and external examiner. Students will be evaluated on an oral presentation of the research study. The marks for the oral presentation will be averaged from an internal and external examiner. Written project: 80% Oral/podium presentation: 20% Students must obtain a minimum of 50% in the written aspect of the project in order to be awarded an overall pass in the module. A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester.
**DP Requirement:** None

Clinical Practice: Auditory Evoked Potentials
CPAU403 WY
(0L-52T-5P-0S-46H-10R-115F-0G-12A-26W-24C)
**Prerequisite Modules:** CPAU342
**Aim:** To provide students with opportunities to learn and to conduct specific auditory electrophysiological tests or measures. In so doing, appropriate skills/competencies will be developed. These relate to the selection of appropriate tests, their administration, recording, and interpretation and making decisions/recommendations regarding subsequent management of clients/patients.
**Content:** Familiarity with and use of auditory and vestibular evoked potential test systems; calibration requirements; identification of patients that require auditory evoked potential and or vestibular assessments; symptomatology with associated pathological conditions; the case history interview; selection and administration of appropriate electrophysiological tests; data analysis and interpretation; reporting results; management and referral practice; limitations of auditory and vestibular evoked potential tests and testing

**Practicals:** Exposure to and 'hands on' clinical training on test equipment and test materials and practice in using test protocols

**Assessment:** Continuous over the clinic year. (75%) Plus 1 Clinical Oral Exam (25%). A minimum of 45% CAM/year mark is required to permit the student to sit the final clinical exam. A subminimum of mark of 45% is required for the oral exam.

**DP Requirement:** Formative assessment mark of ≥ 40%

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**Clinical Practice: Aural Rehabilitation**

CPAU418 WY

Prerequisite Modules: CPAU351, CPAU322, CPAU344, CPAU243, CPAU251, CPAU241, CPAU345

**Aim:** To provide learning opportunities to develop clinical competencies necessary for the management of the individual with hearing disorders in different contexts.

**Content:** Content covered in this module relate to: • Aural rehabilitation across the age span • Adjustment to and use of rehabilitation technology • Counselling • Decision making and intervention planning • Communication intervention • Interdisciplinary team management • Support groups • Family centred intervention • Early Intervention • Educational audiology • Community based rehabilitation

**Practicals:** A compulsory 6 hour clinical session weekly. A minimum of 40 hours at a decentralized training site for service learning (elective)

**Assessment:** For the formative assessment, students will be assessed by direct clinical observation at on-campus and off campus clinics, case presentation, clinical reports and projects weighted at 75%. For the summative assessment students will be assessed by an oral examination weighted at 25%. The final mark is calculated as continuous assessment mark (75%) + exam mark (25%) = 100%

**DP Requirement:** A Continuous assessment mark of 45% or greater is needed for DP

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**Electrophysiological and Vestibular A & Mgt**

CPAU443 W2

Prerequisite Requirement: None

Prerequisite Modules: Clinical Practice Audiological Assessment (no codes, new modules)(24), Paediatric Audiological Assessment (16)

Corequisite: None

**Aim:** To provide learning opportunities to students in order to define, describe and explain concepts and theories of Auditory Evoked Potentials and Electronystagmography / Videonystagmography as well as to practice objective testing procedures Auditory Evoked Potentials and Electronystagmography / Videonystagmography Testing. To facilitate the development of competencies in preparation for independent practice in Audiology.

**Content:** Anatomical and physiological background underlying Auditory Evoked Potentials and Electronystagmography testing. Theory of the Auditory Evoked Potentials and Electronystagmography / Videonystagmography test battery. Understanding of clinical application of Auditory Evoked Potentials and Electronystagmography/ Videonystagmography Testing.

**Practicals:** 19.5 practical demonstrations for the year for a duration 1.5 hours, which occurs at the Audiology clinic (UKZN). Students will be able to operate the equipment and practice testing by demonstrating on colleagues.

**Assessment:** Formative assessment =40% of Final mark: Tests x 2 (Auditory Evoked Potentials X1 and Electronystagmography X1) = 60%, Assignment (x1)= 40%

**DP Requirement:** ≥40%

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**Vestibular Assessment and Management**

CPAU444 W1

Prerequisite Modules: CPAU241, CPAU244

Corequisite: None
Aim: To provide learning opportunities to students in order to define, describe and explain concepts and theories of Electronystagmography / videonystagmography as well as to practice electronystagmography/videonystagmography testing. To facilitate the development of competencies in preparation for independent practice in Audiology. 

Content: Anatomical and physiological background underlying electronystagmography testing. Theory of the electronystagmography/videonystagmography test battery. Understanding of clinical application of electronystagmography/videonystagmography testing.

Practicals: 10.5 hours of practicals each of 1.5 hour duration every second week, which occurs at the Audiology clinic (UKZN). Students will be able to operate the equipment and practice testing by demonstrating on colleagues.

Assessment: Formative assessment = 40% of Final mark: Tests x 2 = 60% (2 x 30%) Assignment x 1 = 40% A sub minimum of 40% will apply to all components of the exam

DP Requirement: Formative assessment mark of 40% or greater

Clinical Practice: Occupational Audiology
CPAU445 W2
Prerequisite Modules: Occupational Audiology
Corequisite: None

Aim: To develop competencies necessary to plan, implement and evaluate an occupational hearing conservation program in a selected occupational setting

Content: The measurement of noise and diagnosis of noise induced hearing loss, planning and implementation of a hearing conservation programme, through active and collaborative participation with workers, their colleagues, management and nursing staff at a selected industry using a preventative health framework

Practicals: None

Assessment: Formative Mark= 75% Direct clinical evaluations (30%) group presentations (20%), reports and clinical assignment (10%), oral clinical test (15%), submission of a portfolio (25% -externally examined). Summative:Oral examination = 25%. A sub minimum mark of 45% is required for the examination

DP Requirement: Formative assessment of ≥40%

Occupational Audiology
CPAU447 W1
Corequisite: None

Aim: To provide learning opportunities to facilitate the understanding of noise, its measurement, effects and control

Content: Parameters of noise, instrumentation and measurement of noise, effects of noise exposure, and susceptibility to noise- induced hearing loss, damage risk criteria, and diagnosis of noise induced hearing loss and differential diagnosis taking into consideration co-occurring factors such as oto-traumatic agents (chemical toxicity), age and recreational noise;principles and implementation of a comprehensive hearing conservation program, legislation relating to noise control and issues related to compensation.

Practicals: Practical orientation to policy, equipment, and hearing conservation standards. Practical exposure to occupational noise measurements and the planning and implementation of conservation strategies.

Assessment: Formative Mark= 40% and comprises of two tests and 1 assignment. Summative = 60% and comprises a two hour examination.A subminimum of 40% is required for the examination

DP Requirement: Formative assessment of ≥40%

Clinical Practice: Gen & Adv. Audio. Ass.1
CPAU461 W1W2
Prerequisite Modules: CPAU352,CPAU345,CPAU322,CPAU344,CPAU351,CPAU243
Corequisite: None

Aim: To provide learning opportunities to students in assessing individuals using basic and advanced audiological testing, auditory evoked potentials testing, , auditory processing disorders testing for preparation in independent practice

Content: Basic and diagnostic audiometric testing, Screening, Electrophysiological testing, and Auditory processing disorders testing across the age span.

Assessment: Formative assessments (75%) and summative (25%) A subminimum of ≥ 40% must be obtained in the oral examination. Formative assessment includes: An oral examination Formative assessment includes 4 clinical evaluation (60%), 4 clinical reports (5%), 2 case presentation (5%), elective evaluation (5%), clinical portfolio (25%)
DP Requirement: Formative mark of ≥40%

Clinical Practice: Gen & Adv. Audio. Ass.2
CPAU462 W1 W2 (0L-20T-0P-0S-17H-10R-104F-0G-9A-15W-16C)
Prerequisite Modules: CPAU444, CPAU345, CPAU322, CPAU344, CPAU351, CPAU243
Corequisite: None

Aim: To provide learning opportunities to students in assessing and managing individuals using basic and advanced audiological testing, electronystagmography and videonystagmography testing, and to develop competencies necessary to plan, implement and evaluate an occupational hearing conservation programs in a selected occupational setting, in preparation for independent practice.

Content: Basic and advanced diagnostic audiometric testing and management focussing on differential diagnosis, Electronystagmography and videonystagmography testing and management, across the age span and the measurement of noise, planning and implementation of a hearing conservation programme, through active and collaborative participation with workers, their colleagues, management and nursing staff at a selected industry or clinical site using a preventative health framework.

Assessment: Formative assessments (75%) and summative (25%) = final mark. Formative assessment includes 4 direct clinical evaluation (30%) 2 clinical reports (5%), 1 case presentation (5%), clinical portfolio (25%)( externally evaluated), group presentations (10%), Summative: Oral examination (25%) A subminimum of ≥40% must be obtained in the oral examination.

DP Requirement: Formative mark of ≥40%

Masters Research in Audiology Continuing
CPAU8CY (0L-39T-0P-3S-1690H-0R-160F-0G-24A-52W-192C)

Aim: To facilitate the learner’s ability to conduct research & submit a full research dissertation on an approved topic.

Content: Planning the research process, developing data collection instruments, obtaining ethical clearance, implementing data collection, analysis and interpretation of findings, & writing a research report.

Assessment: Research report (100%)

DP Requirement: 90% attendance at tutorials and presentations at seminar

Masters Research in Audiology
CPAU8FY (0L-39T-0P-3S-1690H-0R-160F-0G-24A-52W-192C)

Aim: To facilitate the learner’s ability to conduct research & submit a full research dissertation on an approved topic.

Content: Planning the research process, developing data collection instruments, obtaining ethical clearance, implementing data collection, analysis and interpretation of findings, & writing a research report.

Assessment: Research report (100%)

DP Requirement: 90% attendance at tutorials and presentations at seminar

Masters Research in Audiology Subseq Yr
CPAU8SY (0L-39T-0P-3S-1690H-0R-160F-0G-24A-52W-192C)

Aim: To facilitate the learner’s ability to conduct research & submit a full research dissertation on an approved topic.

Content: Planning the research process, developing data collection instruments, obtaining ethical clearance, implementing data collection, analysis and interpretation of findings, & writing a research report.

Assessment: Research report (100%)

DP Requirement: 90% attendance at tutorials and presentations at seminar

Communication Pathology-Speech Language Pathology

Introduction to Development Comm. Disorders
CPSL141 W2 (45L-18T-18P-0S-51H-12R-0F-0G-16A-15W-16C)

Prerequisite Requirement: None
Corequisite: None
Aim: To provide learning opportunities so that students are able to understand the nature of developmental communication and disorders prevalent in the South African context and relevant to the practice of audiologists and speech language therapists. To provide learning opportunities so that students understand the prevention, promotion, assessment and management of speech sound disorders.

Content: What is a developmental communication disorder, outlining general and communicative aspects, including intellectual disability, autism spectrum disorders, cerebral palsy, paediatric dysphagia, hearing impairment, HIV/AIDS and including significant aspects relevant to the South African context. General signs of articulatory/phonetic and phonological speech sound system disorders, description of speech and sound disorders, prevention, promotion, assessment and management of speech sound disorders using formal and informal procedures, approaches to intervention including articulatory and phonological approaches.

Practicals: 6 practicals of 3 hours each, over 13 weeks.

Assessment: Continuous assessment: Continuous assessment mark comprises of one assignment (40%), two tests (40%) and participation in two on-line task (20%). The weighting of all assessments comprise the 100% maximum continuous assessment mark.

DP Requirement: No DP requirement – continuous assessment

Clinical Phonetics and Linguistics
CPSL142 W1

Prerequisite Requirement: None

Corequisite: None

Aim: To provide a theoretical introduction to and practical skills in transcribing and reading the International Phonetic Alphabet, and to provide a foundation of key concepts and understanding of the acoustic properties of speech sounds, all for the purposes of application to normal and disordered communication, with specific reference to the English and Zulu languages. To provide theoretical and practical capability in clinical aspects of language analysis and use. To introduce the theoretical and practical and clinical aspects of sociolinguistics and functional grammar, with specific application to the practice of speech language therapists and audiologists, especially in South Africa/KwaZulu-Natal for application with normal and disordered communication.

Content: Phonetics, Phonology, Morphology, Functional Grammar, Physics of speech; Syntax, Semantics, Zulu Phonology, English Phonology; Genre & register theory (clinical genres, orature genres) advanced clinical linguistics, clinical phonetics, language & dialect and change quantitative approaches to the analysis of linguistic variation cognitive linguistics, social aspects (politeness, power, professional discourse); orthography

Practicals: 6 practicals of 3 hours each (18 hours), over 13 weeks.

Assessment: Continuous assessment: mark computed from 4 components. •One assignment in two parts (30%), 2 tests (40%), and at least three on-line quizzes in skills laboratory (10% each).

DP Requirement: Continuous assessment

Introduction to Human Communication Sciences
CPSL143 W1

Prerequisite Requirement: None

Corequisite: None

Aim: To provide an understanding of normal speech, language, hearing and feeding/swallowing within the framework of cultural and communication models; to provide a life-span view of development of speech, spoken and written language, hearing and feeding/swallowing; to introduce principles of prevention, promotion, identification, assessment, intervention and advocacy; to introduce ethical issues relating to professional practice; to introduce legislation and policy relevant to practice.

Content: Process of normal communication, swallowing and feeding; models of communication breakdown, norms of development, principles of prevention, promotion, identification, assessment, intervention and advocacy in the multi-lingual, multi-cultural South African context in particular; ethical principles, issues and challenges relating to professional practice in diverse contexts; legislation and policy relevant to practice in South Africa in particular.

Practicals: 6 practicals of 3 hours each (18 practicals), over 13 weeks.

Assessment: •Continuous assessment •Continuous assessment mark computed from the 4 components, of which all contribute to 100% of final mark. •Two assignments (15% each), 1 test (30%), one on-line task (10%) and three on-line quizzes (10% each).

DP Requirement: No DP – continuous assessment
Development Language Disorders (DLD)
CPSL241 W1
Prerequisite Modules: CPSL141, CPSL142, CPSL143
Aim: To enable students to develop the attitude, knowledge and skills for the prevention, promotion, identification, assessment and intervention for children with developmental language disorders and disorders of language for learning. Special reference is made to the multicultural and multilingual South African context.
Practicals: 6 x 3 hours practicals during which students are exposed to the existing tools, approaches and methods of assessment and intervention required to develop appropriate resources for both assessment and intervention.
Assessment: Formative 60% + Summative 40% = final mark. Formative: 2 tests (60%), 1 two-part assignment (40%). Summative: 1x 2 hour written exam. Sub minimum of 40% in the exam will apply.
DP Requirement: A minimum formative assessment/semester mark ≥ 40%.

Speech Disorders: Cleft, Voice and Fluency
CPSL245 W2
Prerequisite Modules: CPSL141, CPSL142, CPSL143
Corequisite:
Aim: To provide learning opportunities to facilitate understanding of prevention, identification, assessment, intervention and advocacy for individuals with communication difficulty as a result of voice disorders, craniofacial disorders and fluency disorders.
Content: The nature, incidence and prevalence of functional and organic voice disorders, prevention, promotion, identification, assessment, and intervention for functional and organic voice disorders including laryngectomy rehabilitation; relevant advocacy. The nature, incidence and prevalence of craniofacial disorders and cleft lip and plate in particular, clinical features, problems in oral communication, prevention, promotion, identification, assessment, intervention with particular reference to subjective and objective assessment methods: surgical, orthodontic and therapeutic management. Definition of stuttering, nature, incidence and prevalence of stuttering, types of fluency disorders, theoretical perspectives on etiology, prevention, promotion, identification, assessment, intervention methods for the child and adult with fluency disorder, with specific reference to the South African context.
Practicals: 3 x 3 hours practicals, one per component of the module, i.e. voice, fluency and cleft palate/craniofacial disorders
Assessment: Formative assessment: 2 assignments and 3 short on-line quizzes and 1 on-line task. Assignment weighting of 50% and combined on-line tasks and quizzes weighted 50% Summative assessment: 1 x 2 hour exam weighted semester mark 60% exam mark 40%. Subminimum of 40% of all components in the exam will apply.
DP Requirement: Formative assessment mark ≥ 40% as per school policy.

Clinical Practice: Speech Sound Sys Disorders
CPSL246 W1 W2
Prerequisite Modules: CPSL141; CPSL142, CPSL143
Corequisite: None
Aim: To develop clinical skills necessary for the prevention, promotion identification, assessment and intervention for voice and fluency disorders.
Content: Clinical practice in prevention, promotion identification, assessment and intervention for voice and fluency disorders across the lifespan.
Practicals: 8 hours for clinic orientation. 48 hours over 15 weeks clinical practice either on campus UKZN speech clinic or off campus clinics
Assessment: Continuous assessment 100%. Reports for a minimum of 2 clients (35%); therapy evaluations for a minimum of 2 client (35%); home programmes a minimum of 2 clients (5%); observation reports (10%); tutorial tasks (5%); assessment kit (10%)
DP Requirement: 100% continuous assessment AND closure of all client files.
CP SP Sound Disorders for Audiologist
CPSL251 W1 W2
Prerequisite Modules: CPSL142, CPSL141, CPAU142, CPSL143
Aim: To develop clinical skills necessary for the prevention, promotion identification, assessment and intervention for phonologically and articulatory-based speech sound disorders especially in children, with specific focus on Zulu and English-speaking clientele.
Content: Clinical practice in prevention, promotion identification, assessment and intervention for phonologically and articulatory-based speech sound disorders especially in children, with specific focus on Zulu and English-speaking clientele.
Practicals: 8 hour orientation at the beginning of the year.
Assessment: Continuous assessment: 100% year mark – comprised of evaluations for the following: REPORTS per client for a minimum of 2 clients: - Assessment reports 25% - Progress reports 10% THERAPY EVALUATIONS per client for a minimum of 2 clients: 35% HOME PROGRAMMES per client for a minimum of 2 clients: 5% OBSERVATION REPORTS: 10% TUTORIAL TASKS: 5% ASSESSMENT KIT: 10% TOTAL MARKS: 100%
DP Requirement: 100% continuous assessment AND closure of all client files.

Acquired Communication Disorders & Dysphagia
CPSL341 W1
Prerequisite Modules: CPSL241; CPSL245
Corequisite: None
Aim: To facilitate student’s attitude, knowledge and skills in the prevention, promotion, identification, assessment and intervention of individuals with neurologically acquired communication disorders (i.e. aphasia, motor speech disorders) and palliative care.
Content: Theoretical perspectives underlying the nature, assessment & intervention of neurologically acquired communication disorders in patients from diverse backgrounds. The specific disorders include: aphasia, motor speech disorders of dysarthria and apraxia. Introduction and principles of palliative care.
Practicals: 4 x 3 hours practicals where students are exposed to the existing tools, theoretical approaches and methods of assessment and intervention, to facilitate appropriate resource development for both assessment and intervention in each of the six disorders. 1 x 3 hours field trip – site visit to rehabilitation units in public/private hospitals for adults with neurologically acquired communication and swallowing disorders.
Assessment: Formative assessment weighted 60% - two written tests 60% (2 x 30%) - two seminar presentations 15% (2 x 7.5%) – one written assignments 15% - two online tasks 10% (2 x 5%) Summative assessment weighted 40%. Two hour written examination. A sub minimum mark of 40% is required for the exam.
DP Requirement: Formative assessment mark ≥ 40%.

Developmental Communication Disorders A
CPSL344 W1
Prerequisite Modules: CPSL241; CPSL141
Aim: To provide theory on general and specific assessment and intervention methods and issues for developmental communication disorders (DCD), and early intervention.
Content: Diagnosis, assessment and intervention of the communication disorders associated with Autism Spectrum Disorder, Intellectual Disability, Cerebral Palsy, of Childhood Apraxia of Speech, and early communication intervention.
Practicals: Two visits to centres providing early communication intervention and services to children with developmental communication disorders.
Assessment: Formative: Two tests, and one assignment, equally weighted Summative: 1x 2 hour exam paper; a subminimum mark of 40% is required for the exam
DP Requirement: Semester mark >/= 40%

CP SP Speech Disorders (Voice & Fluency)
CPSL345 W1 W2
Prerequisite Modules: CPSL245; CPSL246
Corequisite: None
Aim: To develop clinical skills necessary for the prevention, promotion identification, assessment and intervention for voice and fluency disorders.

Content: Clinical practice in prevention, promotion identification, assessment and intervention for voice and fluency disorders across the lifespan.

Practicals: 8 Hours for clinic orientation, 48 hours over 14 weeks; on campus (UKZN, discipline of Speech-language pathology) and off campus clinics (hospital sites)

Assessment: Continuous Assessment: Resource and material development: voice disorders (20%) Clinical practice: minimum of at least 3 evaluations that must include at least one client with voice disorder and one client with fluency disorder (50%) Assessment and progress/termination reports for at least 2 clients: at least one client with voice disorder and one client with fluency disorder (20%) Support group for clients with fluency disorders (10%)

DP Requirement: 100% Continuous assessment.

Developmental Comm Disorders B
CPSL346 W2
Prerequisite Modules: CPSL241
Aim: To provide theory on general and specific assessment and intervention methods for developmental disorders, in particular auditory processing disorders and paediatric dysphagia

Content: Diagnosis, assessment and intervention of the disorders of paediatric dysphagia (0-9 years) and auditory processing disorders

Practicals: Two visits to centres providing services to children with dysphagia and developmental communication disorders.

Assessment: Formative assessment 60% + summative assessment 40% = final mark Formative: Two tests, one presentation and one assignment, equally weighted Summative: 1 X 2 hour exam paper; a subminimum mark of 40% is required for the exam

DP Requirement: Minimum of 40% for semester mark

Acquired Communication Disorder & Dysphagia
CPSL347 W2
Prerequisite Modules: CPSL241, CPSL141; CPSL246
Aim: To facilitate student’s attitude, knowledge and skills in the prevention, promotion, identification, assessment and intervention of individuals with neurologically acquired communication disorders (i.e. traumatic brain injury, dementia, right hemisphere disorders) and dysphagia

Content: Theoretical perspectives underlying the nature, assessment & intervention of neurologically acquired communication and swallowing disorders in patients from diverse backgrounds. The specific disorders include: traumatic brain injury, dementia, right hemisphere disorders, and dysphagia

Practicals: 3x4 hours practicals where students are exposed to existing tools, theoretical approaches & methods of assessment and intervention, to facilitate appropriate resource development for both assessment and intervention in each of the four disorders. 1x3 hour field trip - site visit to rehabilitation units in public/private hospitals for adults with neurologically acquired communication and swallowing disorders

Assessment: Formative assessment weighted 60% - two written tests 60% (2 x 30%) - two seminar presentations 15% (2 x 7.5%) – one written assignment 15% - two online tasks 10% (2 x 5%) Summative assessment weighted 40% Two hour written examination. A subminimum mark of 40% is required for the exam

DP Requirement: Formative assessment mark ≥ 40%.

C P: Developmental Language Disorders
CPSL349 W1 W2
Prerequisite Modules: CPSL241, CPSL246
Aim: To develop clinical skills necessary for the prevention, promotion identification, assessment and intervention for South African children with developmental language disorders (DLD)

Content: Clinical practice in prevention, promotion identification, assessment and intervention of children at risk for or with developmental language disorders
Practicals: One eight hour practical which serves as the orientation to the module. One field trip of four hours to allow for the identification of children with developmental language disorders. Approximately 48 hours clinical time: on campus clinic and off campus site including creches.

Assessment: 100% continuous assessment. Assessment report: one client-30%, Handover/Progress report: one client-10%, Tutorial demonstration: 10%, Three clinical evaluations on at least two clients: 40%, Clinical test (10%) 

DP Requirement: None

Clinical Practice: CBR
CPSL444 W1W2
Prerequisite Modules: CPSL341, CPSL347, CPSL344, CPSL346, CPSL349
Corequisite: None

Aim: To develop skills in working within a community-based rehabilitation context and at a household level, with individuals with severe and multiple handicap, within a transdisciplinary model of service delivery.

Content: Community access; The facilitation and running of support groups for children with severe disability, involving caregiver, child and CHW; Issues related to learning disability and disadvantage in relation to school readiness; Policy around disability; advocacy

Practicals: One full day orientation – 8 hour practical PLUS academic service learning: at least 18 hours weekly for 6 weeks at 3 days at 6 hours per day=Total 108 hours, with a minimum of 40 client contact hours; may involve short term placement on decentralised clinical training platform

Assessment: Formative assessment Weighted 75% -clinical evaluations with clients, (individual)=40% -health promotion workshop=15% - written case presentation reports, (group)=15% - handover presentation and report (group)=20% -weekly blog or journal (individual)=10% Summative assessment weighted 25% One oral examination. There is a subminimum for the oral exam of 40%.

DP Requirement: Closure of all client files; attendance as per ethical requirements Semester Mark ≥40

Clinical Practice: DCD B
CPSL445 W1W2
Prerequisite Modules: CPSL344, CPSL346, CPSL343, CPSL349
Corequisite: None

Aim: To facilitate the development of clinical competencies necessary for the prevention, promotion identification, assessment and management the school-aged child with or at risk for language learning disability or hearing impairment; in particular in treating higher language function, reading ability, written language ability.

Content: The prevention, promotion identification, assessment and intervention for those at risk for and presenting with language learning disorder: written language; reading and spelling; higher language function; language learning disability, bilingualism and multicultural issues; aural rehabilitation, policy (national and provincial levels) around inclusive education and LSEN.

Practicals: One full day orientation – 8 hour practical PLUS academic service learning: 18 hours weekly for 6 weeks at 3 days at 6 hours per day=Total 108 hours, with a minimum of 50 client contact hours

Assessment: Formative assessment Weighted 75% -at least three clinical evaluations with clients=50% -two written assessment and/or progress reports=25% - five tutorial tasks including one teacher workshop and participation in online discussion forum=25% Summative assessment Weighted 25% One oral examination There is a subminimum for the oral exam as per the college handbook.

DP Requirement: Closure of all client files; attendance as per ethical requirements Semester Mark ≥40
(dysarthria and apraxia of speech), traumatic brain injury, dementia, right hemisphere disorders, and dysphagia. The principles of palliative care are also considered.

**Practicals:** One full day orientation – 8 hour practical PLUS academic service learning: 18 hours weekly (i.e. 3 days at 6 hours per day) for 6 weeks = Total 108 hours, with a minimum of 50 client contact hours

**Assessment:** Formative assessment Weighted 75% - three clinical evaluations with clients=50% - two written assessment and/or progress reports=25% - resource development =10% - two tutorial tasks including a project for the clinical site and participation in online discussion forum=15% Summative assessment Weighted 25% One oral examination There is a subminimum for the oral exam as per the college handbook.

**DP Requirement:** Closure of all client files; attendance as per ethical requirements; Semester mark of ≥40%

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**Research Practice**
CPSL447 WY

**Prerequisite Modules:** HLSC 340, CPSL 344, CPSL 346, CPSL 341, CPSL347

**Corequisite:** None

**Aim:** To familiarize students with basic research principles and methods so as to conduct research in the field of Speech Language Therapy. To promote interest, develop capacity in conducting, presenting and writing up research within the field and obtain evidence based and current literature in the field of Speech Language Pathology as well as to generate research which is contextually relevant.

**Content:** Identification of a research gap/need, construction of a research question, proposal development, data collection, data analysis and research report writing

**Practicals:** None

**Assessment:** 100% summative assessment where year mark = final mark Summative assessment to include the following components: 1. Peer evaluation = 5% 2. Poster = 10% 3. Oral presentation =10% 4. Written research report = 75%. To be externally examined A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester

**DP Requirement:** None

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**Clinical Practice: Initial Assessment**
CPSL457 WY

**Prerequisite Modules:** CPSL344, CPSL346, CPSL341, CPSL347, CPSL349

**Aim:** To develop clinical competencies in initial assessment of clients with communication disorders.

**Content:** Clinical practice and observation in initial in-depth assessment, including planning, selection of assessment material, resource development and information gathering for assessment, counselling, feedback, report writing, clinical practice issues, with a focus on cultural and linguistic diversity. Liaising with family members, fellow professionals and team members, relevant referral correspondence, and gather and provide informative material and sharing of skills.

**Practicals:** 1x 8 hour orientation practical ; 4-5 hours once weekly for field trip/clinic for 14 weeks; Total 52 hours, with a minimum of 12 client contact hours

**Assessment:** Formative assessment is comprised of evaluations of three client assessments, three client reports, and at least two clinical tasks: Ass1, 16%, Rep1 16%, Ass2 16%, Rep2 16%, Ass3 16%, Rep3 16%, Tasks 4% = 100% semester mark. The summative assessment is an oral examination. The weighting is 75% semester mark: 25% examination. a subminimum for of 40% for the oral exam will apply.

**DP Requirement:** Closure of all client files and a Formative assessment mark of ≥40%; Compliance with ethical/professional conduct requirements which includes attendance at all clinics and tutorials.

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**Cardiothoracic Surgery**

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**Cardiothoracic Surg Clinical and Prof Prac 1**
CSURB8A5 MC

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None
Aim: The main aim of this module is: To develop competence in the sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

Content: Anatomy, physiology, pathology and pharmacology relevant to the practice operative surgical care; Principles of surgical care common to all surgical disciplines, and of orthopaedic, neurosurgical, urological, plastic and general and cardiothoracic care.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3 hour papers of MCQ’s and/or short written questions on basic sciences. Candidates to pass each component separately with a pass mark of 50%.

DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

Cardiothoracic Surg Clinical and Prof Prac 2
CSUR8A6 MC

Prerequisite Requirement: None
Prerequisite Modules: CSUR8A5
Corequisite: None

Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

Content: The theory and practice of cardiothoracic surgery including operative surgery and the applied basic sciences, anatomy, physiology and pathology.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written paper; Paper 1 - 15% (sub-minimum 50%); Paper 2 -15% (sub-minimum 50%); Clinical presentations/case scenarios 20% (sub-minimum 50%); Chest Radiology 20%, Cardiovascular Angiography 20%; Viva Voce 10%. A sub-minimum as required (i.e. which must be passed separately with a minimum of 50% of the marks for that particular section, in order for the examination as whole to be passed).

DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

Dentistry

Academic Skills and Clinical Practice
DENT110 W2

Aim: At the beginning of the module, lectures will be conducted in Infection Control and dental terminology. At the end of the module students should have developed skills in negotiating the academic environment in a tertiary institute, and have an understanding of the functioning of a dental surgery/clinic.

Content: Note-taking skills, speed writing, critical reading skills, paragraph writing, speed reading, listening skills, logic, communication, expression, essay writing. Assisting in sterilization and chair-side procedures.

Practicals: Clinical Attendance and Assisting.
Assessment: Purely formative (class mark).
DP Requirement: 100% Attendance at all lectures, practical and clinical sessions.

Oral Biology
DENT141 W1
(34L-30T-0S-40H-20R-0F-10G-26A-13W-16C)
Prerequisite Requirement: None
Corequisite: None

Aim: To ensure that students have foundation knowledge of the macroscopic and microscopic structures of the oral cavity. To provide students with knowledge of oral development and functions of oral, dental and facial tissues, as this forms the basis for clinical practice. To provide insight into the relevant gross & microscopic anatomy.

Content: Dental histology (hard tissues), dental histology (soft tissues), tooth morphology, development of the dental and oral tissues and oral physiology and biochemistry

Practicals: None
Assessment: The formative assessments consists of: 3 tests x25% each =75% 1 assignment 25% =100% The summative assessment consists of: FINAL EXAMINATION: Paper 1: 1x2hr Theory Paper (50%). Paper 2: OSCE (50%). FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply. An oral examination may be conducted.

DP Requirement: A student needs to obtain a formative assessment mark of at least 40% in order to qualify for the final examination

Foundation for Clinical Practice
DENT142 W2
(62L-0T-40P-0S-22H-29R-0F-0G-7A-13W-16C)
Prerequisite Requirement: None
Corequisite: None

Aim: To ensure that the student acquires knowledge in communication, professionalism and infection control, as well as foundation knowledge and preclinical skills in preventive dentistry and radiography, that will be further developed in the second year of study. To enable the student to acquire a basic understanding of the clinical concepts and pathological processes.

Content: This module is divided into a theory component, preclinical skills in the dental skills laboratory, and observation in the clinical environment. The theory component comprises of radiophysics and radiography, cariology, periodontology and Prevention. The preclinical component comprises of instrumentation and radiography

Practicals: Students are required to complete the following preclinical contact time: Prevention: 1 X 2hrs X 10 weeks = 20hrs Radiography: 1 X 2hrs X 10 weeks = 20hrs
Assessment: The formative assessment consists of: 3 Theory tests (20% each) 60% OSCE 20%, Practical test – (Prevention + Radiography) 20% =100% A sub-minimum of 40% in all components of the final examination will apply

DP Requirement: A student must obtain at least 40% in the formative assessment to qualify for entrance in the summative assessment.

Dental Public Health, Ethics and Practice
DENT241 W2
(75L-0T-26P-0S-20H-20R-0F-0G-19A-13W-16C)
Prerequisite Requirement: None
Corequisite: None

Aim: To ensure that the student acquires foundation knowledge of the basic concepts of ethics, jurisprudence and business administration; an understanding of the scope of practice; an understanding of health delivery structures; a basic knowledge of the basic concepts of general epidemiology and a detailed knowledge of dental epidemiology; a basic understanding of the principles and methods of health prevention and promotion; and a basic knowledge of research methodology and biostatistics.

Content: Lectures in ethics, jurisprudence, business administration skills, epidemiology, health promotion and prevention, health services delivery structures, research methodology and biostatistics.

Practicals: 1 X 2 hrs x 13 weeks
Assessment: The formative assessments comprises of: 3 theory tests weighted at 25% each;75% 1 assignment :25% =100% The summative assessment is made of a theory examination. FINAL EXAMINATION: Paper 1: 1x2hr Theory Paper (100%). FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%).
**DP Requirement:** A student must obtain at least 40% in the formative assessment to qualify for entrance into the summative assessment.

### Preventive Dentistry and Radiography I

**DENT242 W1**

**Prerequisite Modules:** ANAT105, ANAT106, DENT142, HPHS111

**Aim:** Have a comprehensive knowledge of the most common diseases affecting the oral cavity i.e. dental caries and periodontal diseases; and relate their effects on surrounding tissues. Be able to complete a thorough examination and diagnosis to the two disease processes; and to formulate an appropriate treatment plan. In addition this module will help students develop the following competencies: to inform medical and dental personnel and the public of the indications for radiological examinations; to take the precautions necessary to protect both the operator and the patient during radiological examinations; and to carry out radiological examinations of the teeth and jaws including film processing procedures.

**Content:** Prevention includes Periodontology (8 lectures), clinical, radiological and pathological features of periodontal and gingival diseases, diagnosis and treatment planning. Prevention (13 lectures) - Preventive treatment and the maintenance and recall of patients. The inter-relationships of dental caries and periodontal diseases with the other disciplines of dentistry; Scaling and polishing. Cariology (10 lectures) - microbiology, diagnosis, management and prevention of dental caries. This module for Radiography is divided into a theory component, preclinical skills in the skills laboratory and clinical skills at the Oral and Dental Clinic. The theory component comprises of Intraoral Techniques, Extraroral Techniques, Normal Radiographic Anatomy.

**Practicals:** Prevention: 1.5 x 2hrs X 13 weeks = 39hrs Radiography: 1x2hrsx13weeks = 26hrs For Radiography - Working under simulated conditions. Followed by an introduction to work with patients. Phantom Head • Bisecting the angle technique: 2 full mouth series Patients • Bisecting the angle technique: 1 full mouth series Oclusal Radiography: - 2 each • Standard maxillary • True maxillary • Standard mandibular • True mandibular • Lateral oblique mandibular • Lateral oblique maxillary Bitewing radiographs: • 6 pairs Panorex – 4 Digital - 3 For Preventive Dentistry - Practicals: Treatment of patients at the Oral and Dental Training Centre, other hospitals and community clinics. Students will attend the specialist periodontic clinic where advanced cases of periodontal disease are managed.

**Assessment:** Continuous assessments consists of: 2 theory tests: 40% OSCE test: 10% Preclinical Assessment: Prevention 10% Clinical/Practical Assessment: 40% Spot tests 100% A student must obtain a final mark of at least 50% to pass the module.

**DP Requirement:** Continuous assessments.

### Basic Dental Clinical Sciences

**DENT243 W1**

**Prerequisite Modules:** HPHS111, ANAT105, ANAT106

**Corequisite:** None

**Aim:** To ensure that the student acquires foundation knowledge and preclinical skills. To enable the student to acquire a basic understanding of the clinical and diagnostic concepts, microbiological and pathological processes, and the different dental specialties so that holistic patient management can be undertaken.

**Content:** This module divided into a theory component, preclinical skills, microbiology laboratory exposure and observation in the clinical environment. The theory component comprises of infection control; microbiology; general medical pathology; principles of history-taking and diagnosis-making; principles of treatment-planning; various diagnostic and therapeutic processes; and the management of common medical disorders.

**Practicals:** Students are required to complete the following preclinical contact time: Diagnostics: 5 X 2hrs X 1 week = 10hrs Infection Control 5 X 2hrs X 1 week = 10hrs Microbiology: 1 X 2hrs X 5 weeks = 10hrs

**Assessment:** The formative assessments comprises of: 1 theory test (Diagnostics, Infection Control and Microbiology): 30% 1 theory test (Gen Pathology and Dental Specialties): 50% OSCE Test 20% =100% The summative assessment is made of a theory and OSCE examination. FINAL EXAMINATION: Paper 1: 1 x 2hr Theory Paper (50%). Paper 2: 1 x OSCE exam (50%). FINAL MARK: CAM Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply. An oral examination may be conducted.

**DP Requirement:** A student must obtain at least 40% in the formative assessment to qualify for entrance to the summative assessment.
Restorative Dentistry and DM - Preclinical
DENT244 W2 (48L-10T-52P-0S-27H-17R-0F-0G-6A-26W-16C)
Prerequisite Modules: DENT141, DENT142
Corequisite: None
Aim: To enable the student to have basic knowledge of the properties and chemical components of restorative dental materials; and to understand why it functions as it does physically and mechanically. To enable the student to have a basic knowledge of operative dentistry (including tooth morphology; oral anatomy; diagnosis, treatment and prevention of disease; and restoration of defective or missing tissue).
Content: This module is divided into a theory and preclinical component. The theory component comprises of lectures, and tutorials. The preclinical component comprises of training in the preclinical skills laboratory.
Practicals: Students are required to complete the following contact time in the preclinical skills laboratory: 2 x 2 hrs x 13 weeks.
Assessment: The formative assessments comprises of: 2 theory tests 60% 1 OSCE 15% 1 Practical test 25% =100%. The summative assessment is made of a theory and OSCE examination. FINAL EXAMINATION: Paper 1: 1 x 2hr Theory Paper (50%). Paper 2: 1 x OSCE exam (50%). FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply. An oral exam may be conducted
DP Requirement: A student must obtain at least 40% in the formative assessment to qualify for entrance in the summative assessment.

Oral Medicine and Oral Pathology
DENT245 W2 (53L-10T-0P-25H-20R-26F-0G-26A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To ensure the student gains basic knowledge of the aetiology, clinical and radiological features related to oral conditions. The student must be able to make a differential diagnosis of oral lesions and have knowledge of the management of common diseases of the head and neck region in order to refer appropriately within the dental team.
Content: This module comprises of a theory and a practical component. The theory part includes the clinical features, diagnosis and management of diseases affecting the soft tissues and surrounding areas of the oral cavity. The practical component involves student observation of clinical diagnosis, recognition of common oral pathological lesions and management of the patient by the dental appropriate practitioner.
Practicals: 1x2hrs x13 weeks = 26hrs
Assessment: FORMATIVE ASSESSMENT 2 Theory tests at 40% each 80% 1 OSCE 20% =100% SUMMATIVE ASSESSMENT The summative assessment is made of a theory and OSCE examination. FINAL EXAMINATION: Paper 1: 1 x 2hr Theory Paper (50%). Paper 2: 1 x OSCE exam (50%). FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply. An oral examination may be conducted.
DP Requirement: A student must obtain at least 40% in the formative assessment to qualify for entrance in the summative assessment.

Minor Oral Surgery and Clinical Pharmacology
DENT246 W1 (38L-10T-20P-0S-21H-20R-30F-0G-21A-0W-16C)
Prerequisite Modules: HPHS111, ANAT105, ANAT106
Corequisite: None
Aim: To impart a basic knowledge of techniques of Local Anaesthesia, its administration, indications, contra-indications and complications. To have skills in the administration of local anaesthesia and management of complications. To introduce the student to the surgical principles and instruments in Minor Oral Surgery. To impart basic knowledge of the pharmacology of medications pertinent to the dental therapy profession
Content: This module has a theory component, pre-clinical and clinical component. The theory part introduces the student to the general principles involved in oral surgery, local anaesthesia and instrumentation as well as dental pharmacology. The pre-clinical training involves demonstration on models, of Local anaesthetic techniques, and tooth movements during an extraction. The clinical component involves the administration of local anaesthesia to a patient.
Practicals: The student is exposed to 20 hrs of practicals: Pre-clinical supervision: 1x 2hrs x 3weeks = 20hrs Clinical supervision: 1 X 2hrs X 15 weeks = 30hrs
Assessment: The formative assessment consists of: 1 theory test on Local Anaesthesia 30% 1 theory test on Introduction of Minor Oral Surgery and Clinical Pharmacology 30% 1 assignment 20% 1 pre-clinical test (30 min) 20% =100% The summative assessment consists of 1x 2 hour Theory Paper 80% 1x OSCE examination 20% =100% THE FINAL MARK IS CALCULATED AS FOLLOWS: Year Mark : 40% Exam Mark : 60% Final Mark 100%
DP Requirement: A student must obtain at least 40% in the formative assessment to qualify for entrance in the summative assessment.

Preventive Dentistry and Radiography II
DENT252 W2
Prerequisite Modules: DENT242, DENT245
Aim: Have a comprehensive clinical knowledge of the most common diseases affecting the oral cavity i.e. dental caries and periodontal diseases; and relate their effects on surrounding tissues. Be able to complete a thorough examination and diagnosis to the two disease processes; and to formulate an appropriate treatment plan. Be able to integrate the different sources of basic information such as radiographic information into treatment planning. To recognise the important of formulating a treatment plan that is responsive to the patient’s needs and socio-economic status.
Content: Prevention includes Periodontology (23 lectures), clinical, radiological and pathological features of periodontal and gingival diseases, diagnosis and treatment planning. Prevention (13 lectures): Preventive treatment and the maintenance and recall of patients; the inter-relationship of dental caries and periodontal diseases with the other disciplines of dentistry; scaling and polishing. Cariology (10 lectures): microbiology, diagnosis, management and prevention of dental caries. Radiography is divided into a theory component, preclinical skills in the skills laboratory and clinical skills at the Oral and Dental Clinic. The theory component comprises of Intraoral Techniques, Extraoral Techniques, Normal Radiographic Anatomy, Radiographic Interpretation
Practicals: Prevention: 1.5 x 2hrs X 13 weeks = 39hrs, administration of local anaesthesia as per scope of practice in second year, Radiography: 1x2hrsx13weeks = 26hrs For Radiography - •Bisecting the angle technique: 2 full mouth series Patients •Bisecting the angle technique: 1 full mouth series Occlusal Radiography: - 2 each •True maxillary •True mandibular •Standard maxillary •True mandibular •Lateral oblique mandibular •Lateral oblique maxillary Bitewing radiographs: •6 pairs Panorex – 4 Digital - 3 For Preventive Dentistry - Practicals: Treatment of patients at the Oral and Dental Training Centre, other hospitals and community clinics. Students will attend the specialist periodontic clinic where advanced cases of periodontal disease are managed.
Assessment: The formative assessments consist of: 2 theory tests: 40% OSCE test: 15% Clinical/Practical Assessment: 40% Spot tests. Web, Seminar: Radiography 5%. A student must obtain a final mark of at least 50% to pass the module. Summative Assessment: The summative assessment consists of: FINAL EXAMINATION: Paper 1: 1 x 2hr Theory Paper (50%). Paper 2: 1 x OSCE exam (10%). Paper 3: 1 x 2hr Practical Exam (40%). FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply.
DP Requirement: A student must obtain at least 40% in the formative assessment to qualify for entrance to the summative assessment.

General Medicine and Special Patients
DENT277 W1
Prerequisite Modules: HPHS111, ANAT105
Aim: The aim of this module would be to provide foundation knowledge. The application of this knowledge is conducted in other modules.
Content: Theoretical knowledge and management techniques related to the practice of Dental therapy of: neurological, neuromuscular, musculoskeletal, dermatological, sensory, and mental disorders, the adolescent, geriatric, pregnant patients, patients with oral cancer, cleft lip and/or cleft palate, blood disorders, basic medical knowledge of headaches, hypertension, diabetes, kwashiorkor, tuberculosis, oedema, blood pressure and the pulses, food balance and nutrition, and the management of medical emergencies.
Assessment: Formative Assessment: 2 theory tests (at 40% each), 2 assignments (at 10% each) Summative assessment: 1 x 2 hr Theory Paper (100%) The final mark is calculated as follows: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub minimum of 40% will apply to each component of the exam
DP Requirement: A class mark of at least 40% is required in the formative assessment in order to qualify for entrance to the summative assessment.

Minor Oral Surgery I
DENT351 W1 (15L-6T-114P-0S-10H-5R-0F-0G-11A-13W-16C)
Prerequisite Modules: All 2nd level Dentistry modules
Corequisite: None

Aim: To impart a basic knowledge of techniques of local anaesthetic, the administration, indications, contra-indications and complications related to local anaesthesia. To develop skills in the administration of local anaesthesia and management of complications. To introduce the student to the surgical principles required in minor oral surgery. To introduce skills in minor oral surgical procedures including exodontia of primary and secondary dentition.

Content: This module has a theory component, a pre-clinical and a clinical component. The theory part enlightens the student on the general principles involved in oral surgery, procedures and management of complications that can arise during procedures, local anaesthesia and instrumentation. The pre-clinical part introduces the students to the skills required for the clinical procedures. The clinical component involves the examination of a patient, diagnosis of main complaint and treatment planning, administration of local anaesthesia and performing an extraction or other minor oral surgical procedure on a patient.

Practicals: The student is exposed to preclinical training (4x2hrs x 1 week = 8hrs), 3X 2hr practical session per week for 11 weeks at the Oral and Dental Training Centre (66hrs) and community service at satellite clinics (20hrs).

Assessment: 1 pre-clinical test (10%) 1 theory test (40%) 1 clinical test (50%) A student needs to obtain at least 50% combined final mark (theory and clinical assessments) to pass the module.

DP Requirement: Continuous assessments will be used for the module. The assessment is made up of theory test, pre-clinical and a clinical assessment. In addition, students must meet set clinical quotas as per the module guide/course outline.

Minor Oral Surgery II
DENT352 W2 (15L-3T-98P-9S-10H-10R-0F-0G-15A-13W-16C)
Prerequisite Modules: DENT351 or 40% exposure
Corequisite: None

Aim: To reinforce knowledge of techniques of local anaesthetic, the administration, indications, contra-indications and complications related to local anaesthesia. To develop skills in the administration of local anaesthesia and management of complications; minor oral surgical procedures including exodontia of primary and secondary dentition; and management of post-operative complications such as infected socket (alveolar osteitis) and post-op bleeding.

Content: This module has a theory component and a clinical component. The theory part enlightens the student on the general principles involved in oral surgery, procedures and management of complications that can arise during procedures. The clinical component involves the examination of a patient, diagnosis of main complaint and treatment planning, administration of local anaesthesia and performing an extraction or other minor oral surgical procedure on a patient allowing the student to develop the skill and gain competency in the second semester.

Practicals: The student is exposed to 98hrs of practicals, 3X 2hr practical session per week for 13 weeks in the second semester at the Oral and Dental Training Centre and community service at satellite clinics (20hrs).

Assessment: Formative Assessment involves: 1 theory test (40%), 1 clinical test (40%), 1 seminar presentation (20%) A student needs to obtain a year mark of at least 40% in order to qualify for the final examination. Summative Assessment: 1 x 2 hour Theory Paper 45%, 1 x 2 hour clinical examination 45% Oral examination 10% = 100% THE FINAL MARK IS CALCULATED AS FOLLOWS: Year Mark : 40% Exam Mark : 60% Final Mark 100%

DP Requirement: A student must obtain 40% in the year mark to qualify for entrance in the summative assessment. The DP mark is made up of all assessments conducted in the first and second semesters, including the theory tests, pre-clinical and clinical assessments. In addition, students must meet set clinical quotas to the satisfaction of the module coordinator.

Restorative Dentistry and Dental Materials I
DENT353 W1 (23L-0T-99P-0S-11H-10R-0F-0G-17A-13W-16C)
Prerequisite Modules: ALL 2ND LEVEL DENTISTRY MODULES
Corequisite: None
Aim: The aim of this module is to manage a patient requiring restorative procedures. To enable students to diagnose, treat and determine the prognosis pertaining to the treatment of teeth with both vital and non-vital pulps as they relate to other hard and soft tissue structures of the oral cavity. To enable students to have a thorough knowledge of restorative materials and their failures, and of all disciplines of dentistry in order to be able to refer patients appropriately. Includes a two week preclinical training program.

Content: This module is divided into a theory and preclinical component. The theory component comprises of lectures. The preclinical component comprises of 4 x 2hrs x 2 weeks = 16 hrs of training in the preclinical skills laboratory. The clinical component comprises of 3 x 2.5 hrs x 11 weeks = 83 hrs of training in the clinic.

Practicals: Practical and demonstrations will be done in the phantom head laboratory.

Assessment: The continuous assessments (CAM) comprises of: 2 theory tests 50% 1 Practical test 25% 1 Class 4 practical test 25% =100%

DP Requirement: A student must obtain 40% in the continuous assessments. The CAM mark is made up of all assessments, including the preclinical sessions, where set quotas have to be achieved in order to demonstrate competence in instrumentation and techniques.

Restorative Dentistry and Dental Materials II
DENT354 W2 (0L-0T-98P-26S-10H-10R-0F-0G-16A-13W-16C)

Prerequisite Modules: DENT353 or 40% exposure to DENT353

Corequisite: None

Aim: The aim of this module is to manage a patient requiring restorative procedures. To enable students to diagnose, treat and determine the prognosis pertaining to the treatment of teeth as they relate to other hard and soft tissue structures of the oral cavity. To enable students to have a thorough knowledge of restorative materials and their failures, and of all disciplines of dentistry in order to be able to refer patients appropriately.

Content: The clinical component comprises of 3 x 2.5 hrs x 13 weeks

Practicals: The clinical component comprises of 3 x 2.5 hrs x 13 weeks

Assessment: The formative assessment comprises of: 2 theory tests 50% 1 examination of patient and class 2/3/4 test 25% 1 class 2 test 25%=100% A student needs to obtain a CAM of at least 40% in order to qualify for the final examination. The summative assessment is made of a theory, practical and oral examination. FINAL EXAMINATION: Paper 1: 1x2hr Theory Paper (45%). Paper 2: practical exam (45%). Paper 3:oral exam (10%) FINAL MARK: Year Mark (40%) + Exam Mark (60%) = Final Mark (100%). A sub-minimum of 40% in all components of the final examination will apply.

DP Requirement: A student must obtain 40% in the year mark to qualify for entrance in the summative assessment. The DP mark is made up of all assessments, including the clinical sessions, where set quotas have to be achieved in order to demonstrate competence in instrumentation.

Integrated Clinical Dentistry I
DENT355 W1 (20L-20T-10P-1S-20H-10R-52F-0G-27A-13W-16C)

Prerequisite Modules: ALL 2ND LEVEL DENTISTRY MODULES

Corequisite: None

Aim: To enable the student to be able to develop clinical skills in diagnosis and treatment planning, and execute clinical procedures in an integrated and holistic manner.

Content: Examination, Diagnosis and treatment planning, Treatment of caries and periodontal disease relevant to the scope of practice, Application of primary preventive agents, developing and implementing a Maintenance Programme; Restorative Dentistry and Dental Materials

Practicals: Students are required to complete the following clinical contact time: 2X 2 hours of clinical sessions per week. Students are required to complete 2 clinical portfolios.

Assessment: 2 practical/clinical tests (at 20% each); seminar presentation (20%), 2 clinical portfolios (at 20% each). A student needs to obtain at least 50% combined final mark (theory and clinical assessments) to pass the module.

DP Requirement: None. Continuous assessment

Integrated Clinical Dentistry II
DENT356 W2 (0L-20T-10P-1S-30H-10R-52F-0G-37A-13W-16C)

Prerequisite Modules: DENT355 or 40% exposure to DENT355
Corequisite: None
Aim: To enable the student to be able to develop clinical skills in diagnosis and treatment planning, and execute clinical procedures in an integrated and holistic manner.

Content: Examination, Diagnosis and treatment planning, Treatment of caries and periodontal disease relevant to the scope of practice, Application of primary preventive agents, developing and implementing a Maintenance Programme; Minor Oral Surgery; Restorative Dentistry and Dental Materials
Practicals: Students are required to complete the following clinical contact time: 2X 2 hours of clinical sessions per week. Students are required to complete 2 clinical portfolios.
Assessment: 2 practical/ clinical tests (at 20% each); seminar presentation (20%), 2 clinical portfolios (at 20% each). A student needs to obtain at least 50% combined final mark (theory and clinical assessments) to pass the module.

DP Requirement: None. Continuous assessment

Diagnostics and Medical Emergencies I
DENT357 W1 (19L-41T-0P-20S-33H-10R-13F-0G-24A-13W-16C)
Prerequisite Modules: ALL 2ND LEVEL DENTISTRY MODULES
Corequisite: None
Aim: Be able to examine and treat patients holistically in all aspects of the scope of the profession, in both the private and public sectors. Manage the patient at the dental chair side in an emergency and be able to prescribe basic medication in the management of common oral and dental disorders.

Content: The diagnostics component of the module is mainly clinical in orientation, and will comprise of clinical sessions; group work, individual research projects, self-directed learning, routine and specialized radiology; and ethics and scope of dental therapy. The Medical Emergencies and Clinical Pharmacology component of the module focuses on medical history taking, vital signs, first aid management; basic principles, absorption, distribution, excretion, toxicity of drugs; update of medications that are to be prescribed for common conditions within the scope of the practising dental therapist.

Practicals: Students will assist on a rotation basis at The Oral and Dental Training Centre and at one of the regional hospitals. Practical demonstration in the management of medical emergencies.
Assessment: Assessment: FORMATIVE ASSESSMENT The Diagnostics component of the module comprises only of formative assessments (60%); five assessments are weighted as follows: Assessments: I - Clinical Test at beginning of final year (30%); II – Small group seminars on Oral Lesions (20%); III – Large Group presentations – HIV/AIDS, Infection Control, Ethics & Human Rights, Health Promotion (30%); IV - Oral Medicine written Test (20%) The Medical Emergencies and Clinical Pharmacology component will comprise of 1 Theory Test (30%) 1 Practical Test (10%). Students must obtain a combined mark of 50% to pass the module.

DP Requirement: None. Continuous assessment.

Diagnostics and Medical Emergencies II
DENT358 W2 (19L-41T-13P-20S-33H-10R-0F-0G-24A-13W-16C)
Prerequisite Modules: DENT357 or 40% exposure to DENT357
Corequisite: None
Aim: Be able to examine and treat patients holistically in all aspects of the scope of the profession, in both the private and public sectors. Manage the patient at the dental chair side in an emergency and be able to prescribe basic medication in the management of common oral and dental disorders.

Content: The diagnostics component of the module is mainly clinical in orientation, and will comprise of clinical sessions; group work, individual research projects, self-directed learning, routine and specialized radiology; and ethics and scope of dental therapy. The Medical Emergencies and Clinical Pharmacology component of the module focuses on medical history taking, vital signs, first aid management; basic principles, absorption, distribution, excretion, toxicity of drugs; update of medications that are to be prescribed for common conditions within the scope of the practising dental therapist.

Practicals: Students will assist on a rotation basis at The Oral and Dental Training Centre and at one of the regional hospitals. Practical demonstration in the management of medical emergencies.
Assessment: Diagnostics (60%). This comprises of General Dentistry Test (20%); Research Project (20%); Clinical Test at end of final year (20%); Radiology Test (10%); Portfolio and File Assessment and Oral (30%). EXAM DETAILS: The student must present a detailed portfolio of all clinical cases, seminars, outreach programmes, written assignments, tests and a completed portfolio, at least one week before the final examination, for appraisal by the external examiner.
The Medical Emergencies and Clinical Pharmacology component will comprise of 1 Theory Test (30%) 1 Practical Test (10%). Summative Assessment: 1 x 2 hour Theory Paper (100%). Year Mark (40%) + Exam Mark (60%) = Final Mark (100%).

DP Requirement: The student must score at least 40% to qualify for the summative assessment.

Dermatology

Dermatology Clinical & Prof Pract 1
DERM8A5 MC

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

Content: Selected topics from physiology, pharmacology, clinical measurement, clinical chemistry, anatomy and pathology, with special focus on shoe general principles with which dermatology is concerned.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three written papers consisting of 12 short questions each. A final overall pass mark of 50% must be obtained to pass the examination.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Dermatology Clinical & Prof Pract 2
DERM8A6 MC

Prerequisite Requirement: None
Prerequisite Modules: DERM8A5
Corequisite: None

Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

Content: Principle and practice of dermatology and ethical issues; Diseases important in the South African context and cost-effective investigations and treatment will be emphasized.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two written papers on the principles and practice of dermatology; Clinical examination; Practical and Oral examination including histopathology of the skin, mycology, and common diagnostic and therapeutic procedures. All components to be passed separately, with a pass mark of 50%.

DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.
Emergency Medicine

Emergency Medicine Clinical & Prof Prac 1
EMER8A2 MA

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.
Content: Anatomy, physiology, pathology and pharmacology relevant to the practice of Emergency Medicine. Principles of Emergency Medicine are to be learnt in an established accredited Emergency Medicine Department, the EMRS pre-hospital sector (including disaster management) and other related Medical Specialties such as acute medicine (including coronary care, tropical diseases, pulmonology and toxicology), trauma, acute paediatrics, critical care, O&G emergencies, psychiatric.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full-time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written papers on the basic sciences; One 3-hour MCQ paper on each of the four basic sciences (anatomy, physiology, pathology and pharmacology) Each component needs to be passed separately.
DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Emergency Medicine Clinical & Prof Prac 2
EMER8A3 MC

Prerequisite Requirement: None
Prerequisite Modules: EMER8A2
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: The theory and practice of Emergency Medicine.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full-time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written papers covering the principles and practice of emergency medicine. One 2-hour MCQ paper on clinical aspects relevant to the practice of emergency medicine; OSPE Clinical and simulation examination. Two short clinical cases. Two emergency simulations: Oral examination – Two thirty minute oral examination The weighting of the examination is as follows: Written papers: Paper 1 (125 marks); Paper 2 (125 marks); MCQ paper (25 marks). Practical component: OSPE (100 marks); Clinical cases (100 marks) Emergency simulation 100 marks; Oral 1 (100 marks); Oral 2 (100 marks).
DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.
Family Medicine

Foundations of Family Medicine and Bioethics
FAME6AA H1 (60L-0T-0P-20S-80H-30R-0F-10G-120A-0W-32C)
Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to provide doctors with the knowledge of the Principles and tools of Family Medicine to enable them to practice holistic medicine from a bio psycho social approach. The module aims to provide a theoretical framework and resources for the development and achievement of national core competencies viz clinical competency, change agent, community advocate, collaborator, capability builder and critical thinker. The module also aims to provide a framework for evidence based practice and practicing medicine in an ethical and professional manner. Students will be able to undertake advanced reflection and development by means of a systematic survey of current thinking, practice and research methods in Family Medicine.
Content: Introduction to the Philosophy, Principles and Tools of Family Medicine, to enable doctors to comprehensively manage, using available evidence, all aspects of patient care in a holistic bio/psycho/ social manner. The Family Medicine Consultation. The concept of the National Health Insurance and the re-engineering of Primary Health Care will be introduced. Content will also be provided on legal aspects of Family practice, bioethics and professional practice, moral reasoning and clinical forensic medicine relevant to Family Medicine.
Practicals: None
Assessment: •Portfolio of learning - 40% (Formative) •Written – MCQ – 30 % (Summative) •Clinical – OSCE – 30 % (Summative Formative Assessment : 10 assignments and 3 workplace based assessments Summative Assessment : 1 written exam(Multiple Choice Questions and may include Modified Essay Questions) 1 Clinical/Practical exam (Objectively Structured Clinical Exam)
DP Requirement: 80% attendance as indicated on the attendance sheets for contact sessions, seminars, and /or workshops. Completion and submission of portfolio.

Maternal, Child and Mental Health
FAME6AB H1 (60L-0T-0P-20S-80H-30R-0F-10G-120A-0W-32C)
Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to enable doctors to comprehensively manage mentally ill patients at a district hospital and in the community in a holistic bio/psycho/ social manner. The module also aims to ensure that generalist provide health promoting and preventative and curative care to mothers and children. The module will also develop in the students the necessary knowledge, skills, values, attitudes and evidence based learning to manage patients in a culturally diverse South Africa. These aims will form the basis for the development of national core competencies viz clinical competency, change agent, community advocate, collaborator, capability builder and critical thinker.
Content: The content of the module will include: Mental Health Act, Psychiatric emergencies, Psychosis, Dementia, Depression, Suicide / Parasuicide, Substance abuse, Determinants of behaviour change and Stress management at a primary health care and district hospital levels. The supervision and management of a maternal and neonatal service for a sub-district and/or a Maternal Obstetric Unit, including obstetrical and neonatal emergencies. Antenatal, intrapartum and post-partum care. Concepts of breast feeding and immunisations will be introduced. Integrated management of Childhood disease (IMCI) will be the basis for management of children’s conditions. Malnutrition.
Practicals: None
Assessment: •Portfolio of learning - 40% (Formative) •Written – MCQ – 30 % (Summative) •Clinical – OSCE – 30 % (Summative Formative Assessment : 10 assignments and 3 workplace based assessments Summative Assessment : 1 written exam(Multiple Choice Questions and may include Modified Essay Questions) 1 Clinical/Practical exam (Objectively Structured Clinical Exam)
DP Requirement: 80% attendance as indicated on the attendance sheets for contact sessions, seminars, and /or workshops. Completion and submission of portfolio.

Acute and Chronic Diseases
FAME6AC H2 (70L-0T-0P-10S-80H-30R-0F-10G-120A-0W-32C)
Health Sciences

Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to equip Medical Practitioners to be able to competently manage medical and surgical emergencies within the South African context of limited resources and to provide doctors with the knowledge of lifestyle illnesses (pathophysiology, presentation, complications and management) to enable him/ her to practice holistic medicine from the bio psycho social frame work.

Content: The module will cover the recognition and management of common medical, surgical and orthopaedic emergencies and the comprehensive management of all aspects of patients with lifestyle diseases, their family and community in holistic bio/psycho/ social manner

Practicals: None

Assessment: •Portfolio of learning - 40% (Formative) •Written – MCQ – 30 % (Summative) •Clinical – OSCE – 30 % (Summative) Formative Assessment : 10 assignments and 3 workplace based assessments Summative Assessment : 1 written exam(Multiple Choice Questions and may include Modified Essay Questions)1 Clinical/Practical exam (Objectively Structured Clinical Exam)

DP Requirement: 80% attendance as indicated on the attendance sheets for lectures and workshops. Completions and submission of all assignments

Practice Mgmt and Communicable Disease
FAME6AD H2 (60L-0T-0P-20S-80H-30R-0F-10G-120A-0W-32C)
Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to ensure that all generalist doctors have a good understanding of practice management - within the South African context of limited resources; to equip generalist doctors with appropriate knowledge and skills to manage commonly occurring infectious diseases and to develop competent generalists, who will acquire the necessary knowledge, skills, values, attitudes and evidence based learning in the field to manage terminally ill patients in a culturally diverse South Africa. These aims will form the basis for the development of national core competencies viz clinical competency, change agent, community advocate, collaborator, capability builder and critical thinker

Content: Introduction to practice management (epidemiology, health economics, managed care, leadership and management, health care regulations, human resource management, discipline in the work place, etc.), systems management (records, information technology, quality improvement) and prescribing and dispensing of medication. The module will also cover Epidemiology, pathophysiology, diagnosis and management of TB, HIV, sexually transmitted infections and other endemic communicable conditions such as Malaria, Typhoid, Cholera, Influenza, Viral Haemorrhagic Fevers. The theory of palliative care, pain management, symptom control, communication skills, the dying process and stages of acceptance, psychological aspects of terminal care, grief and bereavement counselling, working in a multidisciplinary team will all be covered.

Assessment: •Portfolio of learning - 40% (Formative) •Written – MCQ – 30 % (Summative) •Clinical – OSCE – 30 % (Summative) Formative Assessment : 10 assignments and 3 workplace based assessments Summative Assessment : 1 written exam(Multiple Choice Questions and may include Modified Essay Questions)1 Clinical/Practical exam (Objectively Structured Clinical Exam)

DP Requirement: 80% attendance as indicated on the attendance sheets for lectures and workshops. Completions and submission of all assignments

Family Medicine Clinical & Prof Prac 1
FAME8A3 HC (20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Requirement: None
Corequisite Modules: None
Corequisite: PMED801
Aim: The main aim of this module is: •To develop competence in the basic and foundation sciences which underpin clinical practice in the discipline •To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2 •To provide students with knowledge of the principles of Family Medicine to enable him/ her to practice holistic medicine from the bio psycho social frame work, and a developmental framework. The focus is on ethical practice, practice management, therapeutics and evidence-based practice within within the South African context
of limited resources. The programme aims to develop skilled practitioners, able to improve service delivery to patients, families and communities.

**Content:** Introduction to Principles of Family Medicine, basic sciences, ethics, behavioural medicine, micro and macro counselling skills, crises management, Dr-patient relationship, Health care delivery (conceptual foundations, principles, ideologies, practical approaches, etc), Physical properties of drugs, pharmacokinetics, pharmacodynamics, Applied therapeutics (clinical trials & evidence based medicine, principles of antimicrobial therapy, analgesia, antidepressants, antihypertensives, toxicology), Medical and surgical emergencies, Quality improvement principles, Measurement, indicators and standards, Working in teams, Analysis of data, Making SMART plans. Comprehensive manage all aspects of the care of the HIV positive patient, their family and community in holistic bio/psycho/social manner as well as the ability to comprehensively manage mentally ill patients at a district hospital and in the community in wholistic bio/psycho/social manner. Registrars rotate through the following clinical disciplines during this module viz. General medicine (inpatient care), Infectious diseases Units (HIV & TB), Emergency department (Accident and Emergency, Trauma and Orthopaedics) and Mental Health

**Practicals:** Refer to portfolio requirements

**Assessment:** Formative: Observed consultations/procedures: consultant observes student: 10 clinical consultations are assessed per year. Satisfactory completion of the prescribed research module. Students are subjected to continuous assessment by their clinical and academic supervisors. They are interviewed at the beginning and the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The portfolio mark will constitute 20% of the final examination mark. The portfolio assessment is determined at the end of year 1 and follows the guidelines of the College of Family Physicians of South Africa. The Departmental examination constitutes the summative assessment for this module and will constitute 80% of the module mark. The Part 1 final examination (total weighting of 80%) is constituted as follows: A written examination and a skills OSCE examination (which includes a clinical examination and a management interview). Each section of the examination must be passed separately, with a sub-minimum of 45% for the written papers and 50% for the OCSE (more than 50% of the stations must be passed in the OSCE). The whole exam must be passed with at least 50% Only those candidates who satisfy the subminimum for the written examination will be invited to the clinical examination. The weighting for the exams is 60% written and 40% clinical. Candidates who fail the part 1 examination will be given the opportunity to rewrite the part 1 after 6 months. Candidates who fail the second attempt at the part 1 will be excluded from the program and must vacate their registrar post. All registrars must complete the part 1 within 2 years of registration.

**DP Requirement:** • 70% attendance at designated learning activities • Satisfactory progress of a portfolio and/or logbook

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**Family Medicine Clinical & Prof Prac 2**

**FAME8A4 HC**


**Prerequisite Requirement:** None
**Prerequisite Modules:** FAME8A3
**Corequisite:** FAME8Z1

**Aim:** The main aim of this module is to allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category

**Content:** This is based on the five-unit standards outlined in the professional portfolio 1. Effectively manage him/herself, his/her team and his/her practice, in any sector, with visionary leadership and self-awareness, in order to ensure the provision of high-quality, evidence-based care. 2. Evaluate and manage patients with both undifferentiated and more specific problems cost-effectively according to the bio-psycho-social approach. 3. Facilitate the health and quality of life of the family and community. 4. Facilitate the learning of others regarding the discipline of family medicine, primary health care, and other health-related matters. 5. Conduct all aspects of health care in an ethical and professional manner

**Practicals:** Refer to portfolio requirements

**Assessment:** Formative: Year 2: - The portfolio constitutes 50% of the year mark and the MCQ exam at the end of year 2 constitutes 50% of the exam. - Completion of the research ethics course and completion and submission of the research protocol. Year 3: - The portfolio constitutes 50% of the year mark and the written exam at the end of year 3 constitutes 50% of the exam. - Data collection for the research project must be complete by the end of year 3. Students are subjected to continuous assessment by their clinical and academic supervisors. They are interviewed at the beginning and the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the College of
Family Physicians of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three written papers, a skills OSCE exam and an integrated OSCE examination. Each section of the examination must be passed separately, with a sub-minimum of 50% for the written papers and 50% for the clinical component of the exam. The written component of the examination will count 40% towards the final mark and the clinical component will count 60% towards the final mark.

**DP Requirement:** 
- 80% attendance at designated learning activities 
- Satisfactory progress through each year based on the formative assessment mark.

### Research Project Subseq Yr

**FAME8Z1 MC**

**Aim:** Experience in planning, completing and publishing a research project under supervision

**Content:** Students are expected to work with a research supervisor to prepare a research proposal, which is approved by the Higher Degrees Committee and are given ethical permission by the appropriate University Ethics Committee. The student then has to complete the project as outlined in the proposal and prepare and submit for publication an article based on the research.

**Practicals:** None

**Assessment:** The student submit a peer reviewed published article, published in one of the SAPSE recognized journals. The peer review of the journal is accepted as the assessment. A thesis can also be submitted, in which case it has to be internally and externally assessed. An empirical research project, a systematic review, and a retrospective study are all acceptable formats for this research project.

**DP Requirement:** As per faculty rules.

### Applied Anatomy, Physiology, Thanatology

**FOME7A1 MY**

**Aim:** To teach basic anatomy and physiology as applied to the interpretation of forensic medical findings, and an understanding of concepts of death and dying, legislation and other related matters.


**Assessment:** Participation in seminars and tutorials (20%), practical evaluation (30%), and written examination (50%).

**DP Requirement:** Attendance at 80% of all contact teaching sessions.

### Forensic Medicine

#### Autopsy, Techniques and Pathophysiology

**FOME7B1 MY**

**Prerequisite Requirement:** FOME7A1MY, FOME7F1MY and FOME7D1MY

**Aim:** To introduce students to the procedures of the autopsy, and to enhance the understanding and interpretation of pathological and other findings.

**Content:** Autopsy pre-requisites, instruments and equipment. Basic and specialised techniques for protection, dissection and specimen collection. Interpretation and understanding of basic autopsy findings, pathology and pathophysiology.

**Assessment:** Participation in seminars and tutorials (20%), practical evaluation (50%), and written examination (30%).

**DP Requirement:** Attendance at 80% of all contact teaching sessions.

**Sessions will include practical visits to the mortuary where dissection procedures will be taught.**

#### Clinical Forensic Medicine

**FOME7C1 MY**

**Prerequisite Requirement:** FOME7A1MY, FOME7F1MY

### Forensic Science
Aim: To introduce students to the ethical and legal approach to the living patient survivor of violence and injury, and applications of forensic medicine and science.


Assessment: Participation in seminars and tutorials (20%), practical evaluation (30%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

Sessions will include visits to a clinical forensic centre and/or a Skills Laboratory for practical teaching purposes.

Death & Special Circumstances
FOME7D1 MY
(0L-0T-4P-12S-98H-40R-0F-0G-6A-13W-16C)

Prerequisite Requirement: FOME7A1MY

Aim: To introduce the medico legal approach and investigation into special circumstances and categories of death.

Content: Special categories and circumstances of death: sudden unexpected death: Sudden injuries and death in children, during sporting activities, asphyxial, procedure-related, pregnancy-related, foetal and neonatal death, putrefying and fragmentary remains, custody-related, mass deaths, toxicological (including alcohol and drug) deaths.

Assessment: Participation in seminars and tutorials (20%), assignment on a chosen topic (30%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

Sessions will include practical visits to the mortuary with viewing of autopsy examinations.

Injuries and Forensic Sciences
FOME7F1 MY
(0L-0T-4P-12S-98H-40R-0F-0G-6A-13W-16C)

Prerequisite Requirement: FOME7A1MY

Aim: To introduce students to concepts and definitions in the pathology of trauma and the application of forensic sciences to investigation and diagnosis.


Assessment: Participation in seminars and tutorials (20%), practical evaluation (30%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

Module applicable to both clinical and pathology spheres of forensic work. Sessions may include a practical visit to an examination facility such as a crisis care clinic and/or a mortuary.

Management Health and Safety
FOME7G1 MA
(0L-0T-0P-16S-98H-40R-0F-0G-6A-13W-16C)

Aim: To teach the principles of forensic (clinical and pathology) facility management with special reference to legal, administrative, health and safety aspects.


Assessment: Participation in seminars and tutorials (20%), assignment on a chosen topic (30%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

Medical Law, Ethics and Counselling
FOME7H1 MY
(0L-0T-0P-16S-98H-40R-0F-0G-6A-13W-16C)

Aim: To teach basic concepts of medical law and ethics in health care and medico-legal practice, public relations, counselling and support for the bereaved.

Content: SA Law and ethical codes and principles applied to health care in general and forensic medical practice. Basic public relations and communication skills. Therapeutic response to violence: trauma and bereavement counselling, victim empowerment and interventions. Forensic psychiatry.
Assessment: Participation in seminars and tutorials (20%), assignment on a chosen topic (30%), and written examination (50%).

DP Requirement: at 80% of all contact teaching sessions.

As this module sets the legal and ethical framework of medical practice, it is a foundation module and the first to be taken in the curriculum of the Postgraduate Diploma in Forensic Health Care.

Medical Records Imaging and Mock Trial
FOME711 MY (0L-0T-16S-98H-40R-0F-0G-6A-13W-16C)

Aim: To teach the methods and value of medical imaging for forensic purposes, and to introduce the method of creating and maintaining records and the generation of the medico legal report for the purposes of court evidence.


Assessment: Participation in seminars and tutorials (50%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

This module includes the “capstone” portion of the programme (the Mock Trial), and therefore is the final module taken for the entire programme for the Diploma in Forensic Health Care.

Scene Investigation & Forensic Evidence
FOME7J1 MY (0L-0T-12S-98H-40R-0F-0G-6A-13W-16C)

Prerequisite Requirement: FOME7A1MY, FOME7F1MY and FOME7D1MY

Aim: To introduce students to the approach to, and functions at, the scene of death and crime, and the detection, recording and collection of forensic evidence.

Content: Crime scene, evidence detection and collection, photography, specimen and exhibits, receptacles, custodial chain, use of the forensic laboratory, specialised investigations and interpretation of findings.

Assessment: Participation in seminars and tutorials (20%), assignment on a chosen topic (30%), and written examination (50%).

DP Requirement: Attendance at 80% of all contact teaching sessions.

Sessions will include practical visits to the crime scene or reconstructions.

F Path Clin & Prof Practice 1
FOME8B2 MC (50L-50T-180S-320H-80R-1870F-0G-120A-90W-270C)

Prerequisite Requirement: None

Prerequisite Modules: None

Corequisite: None

Aim: To provide registrars with a sound grounding in basic sciences underlying the theory and practice of Forensic Pathology, to introduce them to the practice of Forensic Medicine and strengthen their grasp of professional ethics and professional behaviour.

Content: Basic principles of general pathology, and the pathology of general systemic and systematic diseases. Basic molecular biology and the use of special stains, immunohistochemistry and microscopy in diagnostic anatomical pathology. Basic principals in haematology (including blood transfusion), chemical pathology and microbiology (including virology).

Practicals: None

Assessment: Formative: All continuous assessments are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written paper, and one practical histopathology slide examination. Each component has to be passed separately. (N.B. These examinations are conducted by the College of Forensic Pathologists of South Africa. (100%)

DP Requirement: Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

F Path Clin & Prof Practice 2
FOME8B3 MC (50L-50T-30P-180S-320H-80R-1870F-0G-120A-90W-270C)

Prerequisite Requirement: None

Prerequisite Modules: FOME8B2
Corequisite: None
Aim: The aim of the module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of Forensic Pathology at a specialist level without supervision.

Content: Investigation of deaths due to other than natural causes which includes amongst others, deaths in children, pregnant women and adults in general, investigation of specific types of injury or death such as electrical injury, asphyxia and road traffic deaths. Clinical Toxicology, Terminal Ballistics, Crime Scene Management, Mass Disasters.

Practicals: None
Assessment: Formative: All continuous assessments are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written papers, an oral and a practical histopathology slide examination. The practical examination may include an autopsy examination or a part thereof. Each component of the examination has to be passed separately (with subminimum marks allocated to each section). (N.B. These examinations are conducted by the College of Forensic Pathologists of South Africa) (100%).

DP Requirement: Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

### Haematology

**Haematology**

HAEM301 W2

(32L-0T-0P-72H-30R-0G-26A-15W-16C)

Prerequisite Requirement: None
Prerequisite Modules: 128 credit point at level II from the modules in the B Med Sciences Programme. BIO201W1, HPHS231W1

Corequisite: None
Aim: To provide students with a sound grounding in the basic science underlying the theory and practice of Haematology.

Content: Basic molecular biology and immunology as applied to Haematology. Haematological physiology.

Practicals: None
Assessment: Formative assessment-Year Mark (40%): Year mark comprises of 3 tests (60%) and 1 practical reports (40%). Subminimum to write exam: 40% DP, Summative assessment-2Hr exam (60%).

DP Requirement: In order to gain access to the exam, student must have attended 80% of all contact activities and achieved a minimum 40% year mark.

### Haematology Clinical & Professional Practice1

HAEM8B2 MC

(50L-60T-40P-170S-320H-80R-1860F-0G-120A-90W-270C)

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: To provide registrars with a sound grounding in basic sciences underlying the theory and practice of Haematology, to introduce them to the practice of this specialty and strengthen their grasp of professional ethics and professional behaviour.

Content: Basic molecular biology and immunology as applied to haematology, Haematological physiology.

Practicals: None
Assessment: Formative: All continuous assessment are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written papres (100%)

DP Requirement: Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence-academic, clinical and professional.

### Haematology Clinical & Professional Practice2

HAEM8B3 MC

(50L-60T-170P-40S-320H-80R-1860F-0G-120A-90W-270C)

Prerequisite Requirement: None
Prerequisite Modules: HAEM8B2

Corequisite: None

Aim: The aim of this module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of clinical virology at a specialist level without supervision.

Content: Laboratory haematology, including morphology. Basic principles of haematology, immunology and blood transfusion. Diagnosis and pertinent management of haematological disorders.

Practicals: None

Assessment: Formative: All continuous assessments are formative only. A professional portfolio is assessed at the end of the year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written papers, an oral, a clinical and a practical (100%).

DP Requirement: Satisfactory assessment and completion of the Professional Practice portfolio annually. The Professional Portfolio addresses the full spectrum of competence-academic, clinical and professional.

Clinical Sciences

Community Studies

HLSC116 W2 (0L-0T-0P-0S-60H-23R-15F-60G-2A-13W-16C)

Corequisite: None

Aim: To facilitate the development of knowledge of and attitudes and skills appropriate for comprehensive primary health care and community based health care. To train graduates who will function competently, sensitively and compassionately in response to national need and to be agents of change. To educate health professionals through early socialisation to the principles, processes and values of community-based primary health care.

Content: This interdisciplinary Faculty module introduces students to the concepts of primary health care, community based health care, health promotion. The module is designed around the implementation of an awareness creation workshop in selected schools within the identified community with the theme “creating supportive environments for health.” The content focus is on health care, particularly a changing model of health care delivery shifting from the medical, curative model to a promotive, preventive and social development model. Lecture, tutorial and practical periods run sequentially on one morning per week to integrate theory with practice. The methodological focus is on learning and teaching through dialogue. Teaching teams comprising academic, service and community partners facilitate each session. The following content is covered: 1. What is health: 2. What is community: 3. Health and development: 4. The National Health System:

Practicals: None

Assessment: Individual marks 5% of CAM for on-line quizz. Students are required to submit 4 x logs, 3 of which contribute 15% to the final mark (CAM). An assignment contributes 40% to the CAM. An individual report based on the workshop will contribute towards 20% of FAM. Group mark: A group mark is awarded for conducting a community meeting; this mark contributes 20% to CAM.

DP Requirement: continuous assessment

Clinical Mgmt of Communication R D

HLSC241 W1 (60L-0T-0P-0S-69H-25R-0F-0G-6A-15W-16C)

Prerequisite Modules: HPHS111, ANAT115

Corequisite: None

Aim: To introduce speech –language and audiology students to relevant terminology, diagnostic and pathophysiological foundations of disease/ disorder and a range of paediatric and neurological conditions and their medical management

Content: overview of relevant terminology and concepts from pathology, microbiology, as well as neurology, paediatric and psychiatric disorders and ear, nose and throat disorders: aetiology and manifestation of the conditions. medical management of the conditions

Practicals: None

Assessment: Formative 40% + Summative 60% = Final mark Formative: 2 Theory tests (40 % each), 2 online case discussions (10% each) Summative: 1 × 2 hour Theory examination (100%)

DP Requirement: A formative assessment mark of ≥ 40%
Clinical Sciences I
HLSC311 W1

Prerequisite Modules: ANAT101, ANAT102, ANAT104, ANAT109, HPHS221, HPHS222

Aim: Introduces concepts of pathology, microbiology and paediatric, orthopaedic, medical and post-surgery conditions to occupational therapy and physiotherapy students to the aetiology, and clinical characteristics of clients in the areas of paediatric conditions, medical conditions, neurological conditions and general surgery conditions. To enable students to recall the principles of prevention, diagnosis, general management, treatment and anticipated prognosis of the conditions studied. To enable students to understand basic pathology and microbiology terminology and concepts as well as the resultant effects of pathology and microbiology on health.

Content: Each condition or diagnosis below will be described according to •aetiology, clinical picture, principles of prevention, diagnosis, general management, treatment and anticipated prognosis to the paediatric, medical, neurological and general surgical conditions studied •Understand the relevant precautions applicable to the paediatric, medical, neurological and general surgical conditions studied and create awareness of how application of occupational therapy and physiotherapy interventions should take these into consideration. •Apply knowledge and understanding of the conditions studied to assist in the formulation of a functional diagnosis to recognise and assess and physical dysfunction and plan and execute OT and PT interventions for the different paediatric, medical, neurological and general surgical conditions.

Practicals:
Assessment: Final mark = Formative 50% + Summative 50% Formative: 2 Theory tests (50%) Summative: 1 Theory examination (100%)

DP Requirement: Formative assessment mark of ≥ 40 %

Clinical Sciences IV
HLSC314 W2

Aim: This module provides students with a theoretical framework of specific conditions in orthopaedic, cardiothoracic surgery, plastic surgery, dermatology and otorhinolaryngology and clinical pharmacology

Content: Orthopaedics, Cardiothoracic surgery, pharmacology, ENT, dermatology and plastic surgery

Practicals:
Assessment: Formative 50% + Summative 50% = Final mark Formative: 2 Theory tests (50%), Summative: 1x 2 hour Theory examination (100%)

DP Requirement: A formative assessment of ≥ 40%

Clinical Sciences II
HLSC332 W2

Prerequisite Modules: ANAT101, ANAT104, ANAT102, ANAT109, HPHS221, HPHS222

Corequisite:

Aim: To provide the students with a critical understanding of some of the major Psychological and Psychiatric disorders and to equip students with the basic theoretical understanding of these disorders and medical management of these conditions

Content: Describe the aetiology and clinical picture of the conditions studied and recall the principles of prevention, diagnosis, general medical management and treatment and the anticipated prognosis. Understand the relevant precautions applicable to the various conditions and how the application of OT interventions should take these into consideration. Apply this knowledge in the formulation of a functional diagnosis to recognise and address psychosocial dysfunction and to plan and execute effective OT interventions for the different conditions.

Practicals:
Assessment: Final mark = Formative 50% + Summative 50% Formative: 2 Theory tests (50%) Summative: 1 Theory examination (100%)

DP Requirement: Attain ≥ 40 % in Formative Assessment

Applied Research Methods
HLSC340 W2

Prerequisite Requirement: None

Corequisite: None
Aim: To equip students with the necessary basic knowledge and research skills to conduct research at an undergraduate level, and to foster an appropriate attitude towards research.

Content: The module gives an outline of the research process, from proposal writing, choosing appropriate research methodology, statistical analysis, research ethics, and writing up and reporting of findings. The outcome of this module is a research proposal that could be submitted for ethics in the following year.

Practicals: None

Assessment: Continuous assessment consisting of assignment 1: Concept paper (15%); assignment 2: Literature review (15%); Moodle Quiz: Test on statistics (20%); assignment 3: Methodology (15%); assignment 4: Final Proposal (35%).

DP Requirement: N/A as this is continuous assessment

Clinical Sciences III
HLSC344 W2
(60L-0T-0P-0S-69H-25R-0F-0G-6A-15W-16C)

Prerequisite Modules: ANAT101, ANAT102, ANAT104, ANAT109, HPHS221, HPHS222

Corequisite: None

Aim: To introduce health science students to relevant terminology, diseases/conditions, aetiology, pathology, clinical features, prognosis, diagnosis, differential diagnosis, medical treatment/management within the field of orthopaedics trauma and pharmacology. To introduce health sciences students to relevant terminology, aetiology, pathology, prognosis, clinical features, diagnosis/differential diagnosis, and medical treatment/management of inflammatory conditions. To introduce students to the field of occupational/public health.

Content: Orthopaedics, rheumatology, occupational health, pharmacology, cardiopulmonary resuscitation

Practicals: None

Assessment: Formative 50% + Summative 50% = Final mark Formative: 2 Theory tests (50%) Summative: 1x 2 hour Theory examination (100%)

DP Requirement: A formative assessment of ≥ 40%

Clinical Sciences IV
HLSC443 W1
(60L-0T-0P-0S-69H-25R-0F-0G-6A-15W-16C)

Prerequisite Modules: HLSC344, HLSC311

Corequisite: None

Aim: This module provides students with a theoretical framework of specific conditions in orthopaedic, cardiothoracic surgery, plastic surgery, dermatology and otorhinolaryngology and clinical pharmacology

Content: An integration of the clinical sciences of Orthopaedics, Cardiothoracic Surgery, Pharmacology, ENT, Dermatology and plastic surgery into final year Physiotherapy clinical practice.

Practicals: None

Assessment: Formative 50% + Summative 50% = Final mark Formative: 2 Theory tests (50%) Summative: 1x 2 hour Theory examination (100%)

DP Requirement: A formative assessment of ≥ 40%

Pharmacovigilance
HLSC801 W1
(0L-0T-0P-0S-80H-20R-0F-0G-60A-15W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: The aim of this module is to familiarize students with concepts of pharmacovigilance and the application and importance thereof in different areas of Pharmaceutical services.

Content: Drug Safety, Postmarketing surveillance, Adverse Drug Reactions, Event Reporting; Pharmacoepidemiology, Health Legislation, and special groups and products for ADR reporting Current reporting systems in South Africa and internationally

Practicals: None

Assessment: Continuous assessment: Quizzes/Case studies = 25%,Forum discussion = 15%,Assignments = 60%

DP Requirement: None. Continuous assessment is employed
Chronic Disease Rehabilitation
HLSC802 W1
(0L-0T-0P-0S-80H-20R-0F-0G-60A-15W-16C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** To provide students (registered health professionals) with comprehensive information regarding the epidemiology and impact of chronic disease and disability in Southern Africa and to introduce students to the principles of trans-disciplinary assessment and rehabilitation of people living with chronic disease.
**Content:** Introduction and epidemiology of chronic disease globally and in Southern Africa, general rehabilitation principles, trans-disciplinary rehabilitation, disability and the International Classification of Function, Disability and Health (ICF), community-based rehabilitation (CBR), an introduction to assessment and rehabilitation of people living with chronic disease, communication with patients, chronic pain management, impact of chronic disease on care-givers, return to work interventions
**Practicals:** None
**Assessment:** Forum posts 30% Assignments 60% Quizzes 10% TOTAL = 100%
**DP Requirement:** None. Continuous assessment is employed

Infection Prevention and Control
HLSC803 W1
(0L-0T-0P-0S-80H-20R-0F-0G-60A-15W-16C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** The aim of this module is to provide health professionals/scientists with advanced knowledge of the biomedical, clinical, socio-behavioral and environmental principles and practice of infection prevention and control thereby enabling them to apply and transfer the knowledge as well as professional and cognitive skills obtained during the module into the work place and wider environment
**Content:** General Principles of Medical Microbiology; Transmission of Nosocomial Infection; The Hospital Environment; Cleaning, Disinfection and Sterilisation; Principles of Infection Prevention and Control and related topics; Aspects of Safe Clinical Practice; Quality Assurance; Specific Pathogens;; Occupational Health for Health Care Workers; Indicator Organisms; Healthcare facility infrastructure; Outbreak Response; Socio-behavioural and environmental influences on attitudes.
**Practicals:** None
**Assessment:** Continuous assessment:Quizzes /Case Studies = 40%,Forum discussion = 10%,Assignment = 50%
**DP Requirement:** None. Continuous assessment is employed

Antibiotic Stewardship & Conservation
HLSC804 W1
(0L-0T-0P-0S-80H-20R-0F-0G-60A-15W-16C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** The aim of this module is to provide students with advanced knowledge of antibiotic stewardship and conservation, specifically the mechanisms of action and resistance of antibiotics used in clinical, veterinary and agricultural practice, strategies for resistance prevention and containment, national and international stewardship and conservation initiatives and an appreciation for the need to adopt a multi- and inter-disciplinary approach to these issues.
**Content:** The mechanisms of action and resistance of the various classes of antibiotics used in clinical, veterinary and agricultural practice, mechanisms of resistance dissemination, strategies for the prevention and containment of antibiotics in the context of inter alia surveillance, risk factors, infection control, pharmacokinetics and pharmacodynamics, antibiotic stewardship models and approaches, socio-behavioural aspects related to antibiotic prescription, dispensing/distribution and consumption and international and national stewardship and conservation initiatives
**Practicals:** None
**Assessment:** Continuous assessment: Quizzes/Case studies = 25%,Forum discussion = 15%,Assignments = 60%
**DP Requirement:** None. Continuous assessment is employed

Basic Epidemiology
HLSC8H1 WB
(0L-0T-32P-0S-60H-40R-0F-0G-28A-0W-16C)
**Aim:** The module provides a general introduction to the approach, concepts, and perspectives of epidemiology for students and practitioners in a broad range of public health and related disciplines.

**Content:** An introductory module that considers the meaning, scope, and applications of epidemiology to public health practice and the uses of vital statistics data in the scientific appraisal of community health.

**Assessment:** Quizzes (4) - 40 points; Case Studies (3) - 30 points; Examination - 130 points. Total - 200 points

**DP Requirement:** Continuous assessment

### Introduction to Biostatistical Concepts

**HLSC8H2 WB**

**Aim:** This module covers the principal statistical concepts as applied to medical and health sciences. At the conclusion of this module, students will be able to use software to obtain confidence intervals, determine P-values and power, understand tests of equivalence, explain medical vs. statistical significance, conduct ANOVA analysis, and determine the need for hypothesis testing.

**Content:** This module covers basic concepts of probability and statistical inference, focusing on an intuitive approach to understanding concepts and methodologies. It introduces statistical/critical thinking, including the uses and abuses of statistics, descriptive statistics, probability, sampling distributions, interval estimation, hypothesis testing, and regression.

**Assessment:** Homework - 75 points (23%); Tests (50 points each) - 150 points (46%); Final Examination - 100 points (31%). Total - 325 points (100%)

**DP Requirement:** Continuous assessment

### Research Methods and Design

**HLSC8H3 WB**

**Aim:** The module equips students with skills necessary for the planning and execution of their research projects, and critically appraising published papers, being aware of problems of design, analysis and interpretation.

**Content:** The module will focus on an in-depth examination and comparison of qualitative, quantitative and mixed methods designs. Students will have the opportunity to apply their acquired knowledge of research designs toward development of: Statement of the Problem, Literature review and Methodology.

**Assessment:** Students will be assessed using assignments, short answer questions, multiple response questions and practical exercises, that will be weighed as follows: Participation: 10%; Midterm Quiz: 15%; Observation Assignment: 10%; Focus Group Assignment: 15%; Survey Assignment: 15%; Research Proposal: 20%; Final Quiz: 15%

**DP Requirement:** Continuous assessment

### Evidence Based Practice

**HLSC8H4 WB**

**Prerequisite Requirement:** Successful completion of the prerequisites

**Prerequisite Modules:** HLSC8H1WB, HLSC8H2WB, HLSC83WB

**Aim:** This module supports the development of the professional practice and work performance of the candidate to improve clinical care of patients directly or indirectly through evidence based investigation.

**Content:** This module looks at critical appraisal of literature, use of library data bases and Internet, quality scoring of published research and implementation of evidence in clinical practice strategies, including barriers and incentives

**Assessment:** Participation: 10%; 3 Quizzes and 3 Assignments (Choose best grades of 2 Assignments and 2 Quizzes): 40%, Systematic Review Assignment: 25%; Policy Brief Assignment: 25%

**DP Requirement:** Continuous assessment

### Bioethics

**HLSC8H5 WB**

**Aim:** This module will enable those taking it to deepen their understanding of ethical and medico-legal issues in healthcare. While the module is particularly well-suited to those health care professionals who face complex ethical issues in their working lives, it will also be valuable for those involved in the development of public policy and law regarding these issues, as well as for anyone who simply wishes to explore issues of public concern in greater depth.

The overall aim of this module is to enable students to develop understanding in ethics by engaging in ethics analysis on topics that relate to health and health care
Content: The module topics focus on ethics in the routine context of health care. The topics covered are: professional skill and the ethics of care, the health care system and resources, information disclosure, privacy and confidentiality, decision making and consent, health care policy and public health, religion and social context in health care, the beginning and end of life, research ethics, employment issues, and quality and risk management in healthcare.

Assessment: Quizzes (2) - 20%; Discussion Participation (8 Case studies) - 20%; Groupwork Assignment - 20%; Final Individual Assignment - 40%; Total = 100%

DP Requirement: Continuous assessment

Research Project
HLSC8H6 WB
(0L-0T-80P-150S-400H-0R-200F-0G-130A-26W-96C)

Prerequisite Requirement: All modulework must have been successfully completed.

Prerequisite Modules: HLSC8H1WB, HLSC8H2WB, HLSC8H3WB, HLSC8H4WB, HLSC8H5WB, HLSC8H7WB

Aim: Researching and writing a dissertation will enable the student to consolidate and apply the skills and knowledge gained in earlier postgraduate study. The student will undertake a substantial piece of independent research on a topic chosen in consultation with his/her supervisor. The project gives students the opportunity to obtain, develop and demonstrate research skills in Health Sciences.

Content: This is compulsory module in the postgraduate Health Sciences Masters programmes. It builds on the research training the student will have gained in the earlier Masters modules. In this module the student needs to undertake a substantial piece of independent research on a chosen topic, which will require him/her to collect and analyse data (understood in a wide sense, including text as data), using a primary methodology

Assessment: Assessment will be conducted in such a way as to adhere to adult learning principles. This means that content and learning demonstrate relevance, problem solving, learning by doing, a strong element of self-direction and ownership, are based on the learner’s experience, and have clear goals. This module will have a summative assessment using project reports, and a final submission as a scientific journal article

DP Requirement: A scientifically acceptable and ethically approved research proposal.

Advanced Special Topics in Health Sciences
HLSC8H7 WB
(0L-0T-40P-0S-40H-40R-0F-0G-40A-13W-16C)

Aim: To enable postgraduates to deepen their knowledge of work in their research interest area; to provide postgraduate students with a transition to independent work in health sciences.

Content: Students can select special topics closely related to their own areas of research interest, or may complement their own specialist topic by studying a broader range of topics to meet their specific professional development needs and advance their professional practice.

Assessment: Protocol for Study to be undertaken (30%); Final Essay Assignment (70%)

DP Requirement: A protocol outlining the topic to be covered and methodology of literature evaluation and/or data mining/collection

Medical Biochemistry

Metabolic Diseases
HMBC3MD W1
(32L-9T-12P-0S-104H-0R-0F-0G-6A-13W-16C)

Prerequisite Modules: BIOC201 or 203.

Aim: Knowledge of the advanced theory of molecular biology and how this relates to various genetic defects that impact human health. This module will explore the molecular/genetic mechanisms of non-infectious and non-cancerous diseases.

Content: Biochemistry/mechanisms of the disorders associated carbohydrate, lipid, protein, purine and pyrimidine metabolism. The following major themes: advances in modern molecular biology (recombinant DNA technology); abnormal metabolism and inborn errors of metabolism such as phenylketonuria, sickle cell anaemia, mitochondrial myopathies, collagen disorders, etc. will also be discussed. Practicals or case studies will be used to facilitate application of knowledge gained.

Practicals: Practicals include the oral glucose tolerance test, cholesterol and lipid quantitation in serum using spectrophotometry, thin layer chromatography to detect amino acids in unknown solutions and electrophoresis to
determine plasma protein content and detect haemoglobinopathies. Case studies will be used to facilitate application of knowledge gained.

**Assessment:** 3 written test covering the content covered during the semester. 2 practicals will be assessed by a comprehensive practical report at the end of each practical. 2 Assignments as determined by lecturer. Final mark consists of 40% formative and 60% summative marks Formative: 60% tests (equally weighted) and 40% classmark Summative: 100% exam mark.

**DP Requirement:** 40% classmark, 80% attendance at all lectures, tutorials and practicals, 100% attendance at all tests.

A lecture note fee will be charged for this module.

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**Advanced Lab Tech. in Medical Biochemistry**

HMBC7AL H1

*(24L-3T-48P-0S-30H-20R-0F-0G-35A-8W-16C)*

**Prerequisite Requirement:** None. Students gain acceptance into the BMedSci Honours Programme with an appropriate Bachelors' degree.

**Corequisite:** None

**Aim:** This module aims to prepare the student for the demands of the year through acquisition of the skills necessary to complete the course successfully (communication skills-written and oral, technical expertise – ability to complete an experiment independently, analytical skills, problem-solving ability, theoretical and practical knowledge of Medical Biochemistry).

**Content:** This module comprises a comprehensive biochemical techniques and applications course. A practical component will be run for each of the techniques taught.

**Practicals:** Hands-on practical sessions in each of biochemical techniques taught.

**Assessment:** Formative: tests (60%), assignments / practical reports / presentations (40%) Summative: 3 hour exam (100%)

**DP Requirement:** In order to gain access to the exam, students must have attended 80% of all contact activities and achieved a minimum 40% year mark.

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**Advanced Principles of Metabolic Diseases**

HMBC7AP H2

*(32L-10T-10P-0S-60H-20R-0F-0G-28A-15W-16C)*

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** To develop an understanding of the integrated metabolic pathways in humans, their regulation and the principles of enzyme control.

**Content:** Integrated metabolism, regulatory enzymes and endocrine control of metabolism. All metabolic pathways are discussed. Regulation (particularly enzymatic control) is emphasised. Alteration in metabolism due to disease, e.g. diabetes and exercise are dealt with.

**Practicals:** None

**Assessment:** Final mark consists of 40% formative and 60% summative marks. Formative: 3 tests (60%), 2 assignments and 1 presentation/siminar(40%). Summative: 3 hour exam

**DP Requirement:** In order to gain access to the exam, students must have attended 80% of all contact activities and achieved a minimum 40% year mark.

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**Environmental Toxicology**

HMBC7ET H2

*(32L-10T-36P-7S-60H-0R-0F-5G-10A-13W-16C)*

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** To use the basic principles of environmental toxicology and mechanisms of toxicity as a platform to explore the effects of naturally occurring and/or potentially hazardous environmental substances on biological systems.

**Content:** Students will learn about how the disposition of naturally occurring and man-made toxicants influences the mechanisms by which they exert toxicity and the effects that are manifest at the preferred target.

**Practicals:** None

**Assessment:** Final mark consists of 40% formative and 60% summative marks Formative: tests (60%), assignments / case studies / presentations (40%) Summative: 3 hour exam
DP Requirement: In order to gain access to the exam, students must have attended 80% of all contact activities and achieved a minimum 40% year mark.

**Lab-Based Research Project**
HMBC7LP HC  
(20L-0T-440P-32S-132H-0R-0F-0G-16A-26W-64C)

**Aim:** To improve the initiative, problem-solving ability, communication skills and technical expertise of the candidate.

**Content:** The candidate, guided by experienced and productive scientists, will work on a laboratory-based research project that is part of a larger integrated program. The students are taught the basics of research methodology, i.e., what is research, reading and writing for research and explore the ethical considerations that must be taken into account. Students are also taught how to assess and evaluate journal articles through journal club meetings. This course allows the students to apply what they have been taught in the Molecular Biology and Research Methodology Module – hands on. They are also exposed to other ‘working scientists’ through local conferences. The candidate must complete a project proposal and ethics application, and then complete the project. The laboratory-based research project will culminate in the production of a research paper and mini-dissertation.

**Practicals:** Laboratory-based module – will depend on research project allocated.

**Assessment:** Based largely on the compilation of a scientific paper and an oral presentation of the experimental work done during the year on the research project. Your research potential (based on skill in laboratory procedures, comprehension of and contribution to the project, and motivation towards advanced studies) will be assessed. Evaluation of a mini-dissertation, literature review and preliminary presentations will form part of the final mark.

**DP Requirement:** 100% attendance at seminars, Laboratory time at 50% total course time.

**Molecular Mechanisms of Disease**
HMBC7MD H1  
(32L-0T-0P-9S-70H-20R-0F-0G-26A-15W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** To provide students with an advanced knowledge in the theory of molecular biology of diseases and their mechanisms.

**Content:** The molecular mechanisms by which diseases such as cancer, diabetes, cardiovascular disorders and autoimmune disorders occur will be discussed. HIV and TB will also be covered. Therapeutic interventions and their mechanisms will be covered.

**Practicals:** None

**Assessment:** Final mark consists of 40% formative and 60% summative marks Formative: tests (60%), assignments / presentations (40%) Summative: 1 x 3 hour exam (100%)

**DP Requirement:** In order to gain access to the exam, students must have attended 80% of all contact activities and achieved a minimum 40% year mark.

**Research Methodology for Medical Sciences**
HMBC7MR M1  
(22.5L-5T-0P-0S-90H-16.5R-0F-0G-26A-15W-16C)

**Prerequisite Requirement:** None

**Aim:** The module introduces graduates to the tools, techniques and processes in research methods for laboratory based research, in order to equip them in the formulation of research proposals, implementation there-of and writing of research reports in a scientifically acceptable format; critically appraising published papers, being aware of problems of design, analysis and interpretation.

**Content:** Research process and research designs, ethics of research, statistics, data analysis, scientific report writing, project management and professionalism.

**Practicals:** None

**Assessment:** Continuous assessment of 100% made up as follows: 1.Tests (60%) 2.Scientific report (30%) 3.Oral presentations (10%)

**DP Requirement:** N/A : 100% Continuous assessment
Research Project in Medical Biochemistry

HMBC7RP HY

Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.

Corequisite: None

Aim: To develop research capacity in Medical Science, and to develop students with initiative, problem-solving ability, communication skills (written and oral) and technical expertise, as well as an advanced level of knowledge in their field of specialisation (either Anatomy, Human Physiology, Medical Biochemistry, or Medical Microbiology).

Content: Formulation of a research question and hypothesis, literature review, referencing tools, research protocol development, ethics application, oral presentation of protocol, training in selected, specialized laboratory techniques specific to project, laboratory experimental work, analysis and interpretation of results and manuscript writing and oral presentation of completed project.

Practicals: Project- related laboratory experimental work under supervision

Assessment: Final mark consists of 20% formative and 80% summative marks Formative: written proposal and oral presentation: 20% Summative: Written manuscript (50%); oral presentation of final project (20%); mastery of laboratory skills (10%)

DP Requirement: None

Physiology

Basic Human Physiology

HPHS111 W1

Aim: The student must demonstrate an understanding of the structure and function of the various organ systems in the human body including their role in maintaining homeostasis

Content: Introduction to basic and physical and chemical concepts; Introduction to cells, tissues, homeostatic control mechanisms, nutrition, blood, metabolism and the basic structure and function of the nervous, cardiovascular, respiratory, renal, gastrointestinal, endocrine and reproductive systems.

Practicals: Practicals: 1x3hrs weekly. Lectures: 5 x 45 min lectures weekly

Assessment: Class assessment makes up 40% of the final mark (generated from assessment of practical reports, 2 tutorial tests and 2 theory tests); one two-hour written paper examination makes up 60% of final mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make-up test will be in the form of a viva.

DP Requirement: 90% practical, 100% test attendance. 40% achieved in the semester mark

Physiological Changes in Exercise & Training

HPHS112 W2

Aim: An integrated understanding of the role of the cardiorespiratory and muscular systems in exercise and training

Content: A study of different types of muscles and their role and changes during exercise and training; Nerve cells and their function; The central nervous system; The autonomic nervous system and the special senses with special reference to exercise and training.; A study of the heart, the major blood vessels and blood circulation and regulation of cardiovascular function during rest, exercise and training; The components and functions of the digestive system; The metabolic processes; nutrition and training. Environmental aspects of exercise and training.

Practicals: Practicals: 1x3 hrs weekly. Lectures : 5 x 45 min lectures weekly

Assessment: Class assessment makes up 40% of the final mark (generated from assessment of practical reports, 2 tutorial tests and 2 theory tests; one two-hour written examination paper examination makes up 60% of final mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make-up test will be in the form of a viva.

DP Requirement: 90% practical, 100% test attendance. 40% obtained for semester mark

MedS 1A 2 Human Body:Form/Func

HPHS1H2 W2

Aim: On completion of this module, students should gain a basic understanding of how the normal body functions.
**Syllabi**


**Practicals:** Introduction to safe laboratory practice. Reflexes, special senses, spirometry, blood.

**Assessment:** Two theory tests (40%) and 2 h exam (60%).

**DP Requirement:** 40% classmark, 80% attendance at all lectures, tutorials and practicals, 100% attendance at all tests.

A lecture note fee of R45-00 will be charged for this module.

**Physiology 1**

HPHS1NU (52L-OT-0P-0S-102H-0R-0F-0G-6A-15W-16C)

**Aim:** To provide core knowledge on the structure, principles of function and integrated control of neuromuscular, blood and immune systems. To become familiar with the relevant core knowledge of the structure and function of the human gastrointestinal system and blood. To equip students with relevant core knowledge of the structure and function of the cardiovascular and respiratory systems of the human body.

**Content:** Homeostasis, Membrane, nerve and muscle physiology. Introduction to the functioning of the nervous system, cardiovascular, respiratory, renal and gastrointestinal systems. Basic concepts of blood and immunology. Endocrine and reproductive physiology.

**Assessment:** Coursework assessment: (i) 2 class tests - each test will be 1 hour long and (ii) assignments. Each test will contribute equally to the semester mark. Assignments will contribute 30% to the semester mark and tests will contribute 70% to the semester mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will otherwise be allocated. The make-up test will be in the form of a viva. Examination assessment: 1 2 hour written examination. The final module mark will be made up of 40% semester mark and 60% examination mark.

**DP Requirement:** DP requirements: 40% obtained for the semester mark.

**Homeostasis**

HPHS221 W1 (52L-4T-33P-0S-41H-22R-0F-0G-8A-15W-16C)

**Aim:** On completion of this module students should be able to relate how the body maintains homeostasis by use of the relevant bodily systems in health and disease. Students should also attain proficiency in related practicals.

**Content:** Structure and function of the components of the neuromuscular, respiratory, renal and gastrointestinal system; Blood and body fluids, the regulation of extracellular fluid composition and volume and in acid-base balance; Renal, respiratory and gastrointestinal adjustments in health and disease; Metabolism of carbohydrates, proteins and lipids; Thermoregulation by physical and physiological mechanism.

**Practicals:** Practicals: 1x3 hrs weekly Lectures: 5 x 45 min lectures weekly.

**Assessment:** Course work assessment: 2x1hr Theory test & 1x1hr practical test and course work practical assignments will constitute 40% of the final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will otherwise be allocated. The make-up test will be in the form of a viva. Examination assessment: One 2 hr written paper that will constitute 60% of the final module mark.

**DP Requirement:** 90% practical, 100% test attendance A minimum of 40% required for the semester mark.

**Integration and Communication**

HPHS222 W2 (52L-4T-33P-0S-41H-22R-0F-0G-8A-15W-16C)

**Aim:** To study the integrated function of human organ systems in health and disease.

**Content:** A study of the anatomy and function of nerve cells, spinal cord, brain sympathetic and parasympathetic nervous system; a study of the function of the special senses; disorders of the nervous system. The structure of the heart and its function as a pump; the vascular system, blood composition and function of its components; Blood pressure control and hypertension; Cardiovascular homeostasis in health and disease. Structure of the endocrine glands, hormonal secretion and associated abnormalities. Reproduction and hormonal control of sexual functions.

**Practicals:** Practicals: 1x3hrs weekly . Lectures: 5 x 45 min lectures weekly.

**Assessment:** Course work assessment: 2x1 hour theory tests and 1x1 hour practical test and coursework practical assignments will constitute 40% of the final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will otherwise be allocated. The
make-up test will be in the form of a viva. Examination assessment: One 2 hr written paper that will constitute 60% of the final module mark.

**DP Requirement:** 90% practical, 100% test attendance. A minimum of 40% required for the semester mark

**Foundations of Physiology**

HPHS231 W2

(52L-12T-78P-10S-140H-20R-0F-0G-8A-15W-32C)

**Prerequisite Requirement:** BIOL103W1 or Biol101W1; CHEM110W1; CHEM120W2; PHYS131W1; BIMI120W2 or BIOL102W2

**Aim:** To provide core knowledge on the structure, principles of function and integrated control of neuromuscular, gastrointestinal, blood and immune systems

**Content:** Homeostasis and homeostatic mechanisms; Cellular transport systems and chemical messengers; Neuron structure and physiology, signal transduction, intraneuronal and interneuronal signal transformation and transmission; muscle classification, structure, chemistry, physiological roles and mechanisms of contraction; Autonomic nervous system: structure, components, chemistry and physiological roles; Circulating body fluids; Haemostasis; Immune mechanisms in health and disease; Structure, function and regulation of the gastrointestinal system

**Practicals:** Practicals: 2x3hrs weekly. Lectures: 5x45 min lectures weekly

**Assessment:** Course work assessment: 2x1 hour theory tests and 2x 1 hour practical tests and written assignments per semester will contribute to 40% of final module mark. Examination assessment: One 2 hour written paper will constitute 60% of final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make-up test will be in the form of a viva.

**DP Requirement:** 90% practical, 100% test attendance. A minimum of 40% required for the semester mark

**Cardiorespiratory and Renal Physiology**

HPHS232 W2

(52L-12T-78P-10S-140H-20R-0F-0G-8A-15W-32C)

**Prerequisite Requirement:** BIOL103W1 or Biol101W1; CHEM110W1; CHEM120W2; PHYS131W1; BIMI120W2 or BIOL102W2

**Aim:** To provide core knowledge on the structure, principles of function and integrated control of cardiovascular, respiratory and renal systems.

**Content:** Electrical and mechanical activity of the heart; haemodynamics: the vascular system, microcirculation and lymphatics; the peripheral circulation and circulation through special regions; cardiovascular regulatory mechanisms in health and disease; Structure, function and regulation of the respiratory system. Structure and function of the renal system: Mechanism of urine formation and micturation; Homeostatic role of the kidneys in body-fluid, electrolyte and acid-base regulation, renal function in disease and drug handling.

**Practicals:** Practicals: 2X3hrs weekly. Lectures: 5 x 45 min lectures weekly

**Assessment:** Coursework assessment: 2 x 1 hour theory tests and 2 x 1 hour practical tests and assignments per semester will contribute to 40% of final module mark. Examination assessment: One 2 hour written paper will constitute 60% of final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make-up test will be in the form of a viva.

**DP Requirement:** 90% practical, 100% test attendance. A minimum of 40% required for the semester mark

**Physiology 2**

HPHS2NU

(52L-0T-0P-0S-102H-0R-0F-0G-6A-15W-16C)

**Prerequisite Requirement:**

**Aim:** To equip students with the knowledge of how to apply Physiology to clinical conditions. To integrate basic introductory physiology concepts with clinical conditions

**Content:** Applied cardiovascular physiology and pathophysiology, including an introduction to cardiac failure and hypertension. Nutritional aspects of physiology related to nursing practice. Applied respiratory physiology and pathophysiology. The Immune system and HIV.

**Practicals:** Practicals: 2X3hrs weekly. Lectures: 5x45 min lectures weekly

**Assessment:** Coursework assessment: 2 x 1 hour theory tests and 2 x 1 hour practical tests and assignments per semester per semester will contribute to 40% of final module mark. Examination assessment: One 2 hour written paper
will constitute 60% of final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make-up test will be in the form of a viva.

**DP Requirement:** 40% obtained for the semester mark.

**Human Genetics Applied Physiology**

**Prerequisite Requirement:** HPHS231W1, HPHS232W2, BIOC201W1, BIOC202W2

**Aim:** Knowledge and understanding of normal body metabolism and thermoregulation and the adaptive physiological changes that occur during stress due to environment, exercise and disease. Knowledge and understanding of chromosomal basis of heredity, human and population genetics and genetic diseases. Knowledge and understanding of immunological defence mechanisms

**Content:** Metabolism during well-fed, fasting, starving and diseased states; Thermoregulation and the consequences of the breakdown thereof; nutrition, malnutrition and the balanced diet; Environmental factors in health and disease; Stress; Exercise; regulation and interaction of multiple systems; Integrative and adaptive mechanisms of physiological functions in health and disease; Chromosomal basis of heredity and chromosomal disorders; Population genetics; Genetic diseases and their treatment.

**Practicals:** 2X3hrs weekly . 5x45 min lectures weekly

**Assessment:** Coursework assessment: 2x 1 hour theory tests and 2x 1 hour practical tests and an assignment per semester per semester will contribute to 40% of final module mark. Examination assessment: One 2 hour written paper will constitute 60% of final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make up test will be in the form of a viva.

**DP Requirement:** 90% practical, 100% test attendance. A minimum of 40% required for the semester mark

**Neuroendocrine Physiology**

**Prerequisite Requirement:** HPHS231W1, HPHS232W2, BIOC201W1, BIOC202W2

**Aim:** Demonstrate a knowledge and understanding of the nervous system and its regulatory function, a knowledge and understanding of the endocrine and reproductive systems and their function

**Content:** The peripheral nervous system, The somatosensory system and special senses, Spinal organization of motor function and its control by the cerebral cortex, cerebellum and basal ganglia, Reticular activating system and sleep, The autonomic nervous system and its control, The limbic system, the cerebral cortex and higher functions of the nervous system. General principles of neuroendocrine hormone regulation: synthesis, release, transport, mechanism of action and regulation of metabolism by the thyroid gland, endocrine pancreas and the adrenal gland. Hormonal control of calcium and phosphate metabolism. Development and function of the male and female reproductive system.

**Practicals:** Practical: 2 x 3 hrs weekly. Lectures: 5 x 45 min lectures weekly

**Assessment:** Coursework assessment: 2x 1 hour theory tests and 2x1 hour practical tests and assignments per semester will contribute 40% of the final module mark. Examination assessment: 1 written 2 hour paper will constitute 60% of the final module mark. If a student is absent from a test, a medical certificate must be produced immediately on return to enable the student to be retested. A zero mark will be otherwise allocated. The make up test will be in the form of a viva.

**DP Requirement:** A minimum of 40% required for the semester mark. 90% practical attendance and 100% test attendance

**Specialized Physiological Techniques**

**Prerequisite Requirement:** B.Sc or B. Med SC degree with minimum 60% pass in level 3 Physiology modules.

**Aim:** To demonstrate a knowledge of the theoretical and practical basis of electrolyte, trace element, blood pressure analysis and protein and lipid analysis.

**Content:** Radioisotope techniques; ELISA techniques; Electrolyte, protein and lipid analysis; Haematology and Aggregometry, Atomic Absorption Spectrometry and trace metal analysis; Pharmacophysiological Screening Tests; Animal diet formulation; Histological Techniques

**Assessment:** One 2 hour written paper will constitute the final module mark.
DP Requirement: 100% practical attendance

Ancillary research techn. for Life Sciences
HPHS710 (15L-15T-100P-0S-30H-0R-0F-0G-0A-15W-16C)
Prerequisite Requirement: B.Sc or B. Med SC degree with minimum 60% pass in level 3 Physiology modules.
Aim: To introduce students to general laboratory based Research in Medical Sciences
Content: Core aspects of scientific research such as statistics, scientific writing, and the use of different biological models in research.
Assessment: Coursework: Practical reports and attendance and 1 X hr statistics test will form 40 % final module mark
Examination: One 2 hour written paper will constitute 60% of final module mark.
DP Requirement: minimum of 40% year mark, 90% practical attendance and 100 % test attendance

Integrative Physiology
HPHS711 W1 (20L-40T-0S-78H-20R-0F-0G-2A-15W-16C)
Prerequisite Requirement: B.Sc or B. Med SC degree with minimum 60% pass in level 3 Physiology modules.
Aim: To provide an advanced integrated study of selected topics in exercise, respiratory and cardiovascular physiology, cytology and neurophysiology
Content: Selected essays on exercise, respiratory, cardiovascular physiology, cytology and neurophysiology
Assessment: Coursework : Assessment of assignments will form 40 % final module mark
Examination: One 2 hour written paper will constitute 60% of final module mark.
DP Requirement: 100% assignment submission. A minimum of 40% for the semester mark

Applied Physiology
HPHS721 W2 (20L-20T-0P-0S-98H-20R-0F-0G-2A-15W-16C)
Prerequisite Requirement: BSc or B.Med S degree with minimum 60% pass in level 3 Physiology modules.
Aim: To provide an advanced integrated study in applied aspects of immunology, endocrinology, gastrointestinal, renal and reproductive physiology. It entails a review and presentation on selected topics in Applied physiology.
Content: Applied aspects of immunology, endocrinology, gastrointestinal, renal and reproductive physiology
Assessment: Coursework : Assessment of written seminar and presentation will form 40 % final module mark
Examination: One 2 hour written paper will constitute 60% of final module mark.
DP Requirement: 100% assignment submission. A minimum of 40% for the semester mark

Pathophysiology
HPHS731 W2 (20L-20T-0P-20S-80H-18R-0F-0G-2A-15W-16C)
Prerequisite Requirement: BSc or B.Med S degree with minimum 60% pass in level 3 Physiology modules.
Content: It entails a review on selected topics in pathophysiology, neuroendocrine control mechanisms, nutrition and metabolism.
Assessment: Continuous assessment (class record), 40%; one two-hour written paper, 60% of final mark.
DP Requirement: 100% assignment submission, A minimum of 40% for the semester mark
A lecture note fee will be charged for this module.

Physiology Honours Research Project
HPHS741 W2 (20L-60T-220P-60S-100H-20R-0F-0G-0A-26W-48C)
Aim: After completion of the module students will be expected to report on results they have obtained during a research project and should be able to critically analyse data and compare their results to known literature in the field
Content: Research project in any one of the following Physiology fields: Cardiovascular, Respiratory, Exercise Physiology, Endocrinology, Renal, Environmental or Nutritional/Gastro-intestinal Physiology, Neurophysiology and Immunology.
Assessment: Mini dissertation or project write-up (65% of final mark) Research performance during the year (15% of final mark ) End of year presentation of results (20% of final mark )
DP Requirement: As per college rules
Advanced Laboratory Techniques in Physiology
HPHS7AL W1M1

Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.

Corequisite: None

Aim: The overarching aim of this module is to provide an in-depth theoretical and practical understanding of selected advanced techniques in Molecular Physiology and Human Physiology, as well as analytical and problem solving abilities.

Content: Theory and practicals in basic and advanced molecular biology and Physiological techniques Core Molecular Physiology and Analytical Techniques: Laboratory safety, isolation of genomic and plasmid DNA, RNA extraction, agarose gel electrophoresis, nucleic acid quantification using spectrophotometry, restriction analysis, non-radioactive labelling and detection, Southern and Western hybridization, preparation of competent cells, transformation of bacterial cells with plasmid DNA, DNA fingerprinting techniques (RFLP, PFGE, PCR-genotyping), PCR, cloning, DNA and RNA sequencing, bioinformatics, protein analysis, SDS-PAGE, 2D-PAGE, construction of gene knockout mutants, documentation and analysis of DNA and protein gels, light and electron microscopy, analytical techniques (HPLC, GC-MS), Flow cytometry, ELISA, Tissue culture. General discipline specific techniques for Physiology: Neuroscience Techniques [Behavioural Tests e.g. Open Field Test; Novel recognition tests, Elevated Plus Maze, Stereotaxic surgery], Blood Pressure measurements in vitro and in vivo, Electrolyte analysis, Immunohistochemistry, Fluorescence microscopy, Application of basic Molecular Biology techniques to eukaryotic cells including sequencing, Bioplex assays, Metabolic Analysis & exercise physiology, use of Powerlab in Electrophysiology and physiological testing, Isolated Tissue experiments, Langendorff Isolated Heart experiments and Introduction to Nanomedicine

Practicals: Laboratory based practical sessions involving hands-on exposure to specialized techniques in Molecular Physiology and Physiology are required.

Assessment: Final mark consists of 50% formative and 50% summative marks Formative: 2 practical tests (10% each); 1 assignment/presentation (10%); 1 theory test (20%) Summative: 1 x 3 hour exam (Theory) (30%) Practical portfolio (20%)

DP Requirement: Class mark of 50% and 80% attendance at practicals and lectures.

Research Project in Physiology
HPHS7RP WY

Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor's degree or equivalent.

Corequisite: None

Aim: To develop research capacity in Medical Science, and to develop students with initiative, problem-solving ability, communication skills (written and oral) and technical expertise, as well as an advanced level of knowledge in their field of specialisation (either Anatomy, Human Physiology, Medical Biochemistry, or Medical Microbiology).

Content: Formulation of a research question and hypothesis, literature review, referencing tools, research protocol development, ethics application, oral presentation of protocol, training in selected, specialized laboratory techniques specific to project, laboratory experimental work, analysis and interpretation of results and manuscript writing and oral presentation of completed project.

Practicals: Project-related laboratory experimental work under supervision

Assessment: Final mark consists of 20% formative and 80% summative marks Formative: written proposal and oral presentation: 20% Summative: Written manuscript (50%); oral presentation of final project (20%); mastery of laboratory skills (10%)

DP Requirement: None

Research Project
HPHS811 WY

Aim: To equip the learner with an empirical research experience which will enable him to collect data, statistically analyze and interpret the data and write it up in the form of a mini-thesis which can be seen as a pilot study for a PhD or larger self-initiated project.

Content: Literature Review, Research proposal, Ethics application. Methods and Procedures, Results, Discussion & Conclusion. List of References

Assessment: Examination of the dissertation.
DP Requirement: Student’s declaration and supervisor’s confirmation that mini-thesis is original work of the student and has not been submitted in any form to another university or institution.

Capita selecta Physiology
HPHS814 (10L-10T-0P-10S-80H-47R-0F-0G-3A-13W-16C)
Prerequisite Requirement: None
Aim: To establish in the learner those aspects of exercise physiology required to effectively practice as a biokineticist. The module is intended to update the learner with aspects of exercise physiology, such as skeletal muscle physiology, fluid and electrolyte physiology, immunology and bioenergetics.
Content: Updated reviews of the following exercise physiology topics: skeletal muscle physiology; cardiorespiratory physiology; endocrine physiology; immune physiology; environmental physiology; fluid and electrolyte physiology; bioenergetics
Assessment: Assessment of student participation in the module by means of evaluating assignments and presentations (40%); 3 hour written examination (60%). This examination may be an open and/or closed book examination
DP Requirement: As per faculty rules.

Research Methodology and Statistics
HPHS819 W1 (39L-0T-3P-8S-50H-40R-0F-20G-3A-13W-16C)
Aim: To enhance the student’s knowledge on research methods. And the tools that are required to analyze the data
Content: This module surveys various research methods and prepares the student in the interpretation, presentation and the writing of scientific research reports
Assessment: (class mark, 30%), examination – one 3-hour paper (70%).
DP Requirement: Student must attain a minimum D.P. mark of 50% in order to qualify to write the exams.

Exercise, Immunity & the Environment
HPHS824 (0L-0T-0P-160H-0R-0F-0G-0A-0W-16C)
Prerequisite Requirement: None
Aim: To establish in the learner the sound knowledge of the effects of exercise and exercise training on the immune system, gastrointestinal system and body fluids and electrolytes. Learners also study environmental factors that affect exercise and exercise performance
Content: The effects of exercise and exercise training on the immune system. The effects of exercise on the gastrointestinal tract and on fluid and electrolyte balance. Environmental factors that affect exercise and exercise performance
Assessment: Assessment of student participation in the module by means of evaluating assignments and presentations shall contribute 40% of the total mark of the module. A formal 3 hour written examination shall contribute 60% of the final mark of the module. This examination may be an open and/or closed book examination
DP Requirement: As per faculty rules.

Muscle Physiology and Metabolism
HPHS825 W1 (10L-10T-0P-10S-80H-47R-0F-0G-3A-13W-16C)
Aim: To establish in the learner the sound knowledge of the effects of exercise training on skeletal muscle adaptation and function, endocrine system function and metabolic activity in order to understand assessment and intervention strategies.
Content: Effects of the different types of exercise and exercise training on skeletal muscle function and adaptation. Bioenergetics applicable to exercise physiology. The effects of exercise and training on endocrine function and maintenance of homeostasis. Neuromuscular physiology
Assessment: Assessment of student participation in the module by means of evaluating assignments and presentations shall contribute 40% of the total mark of the module. Formal 3-hour examination shall contribute 60% to the final mark of the module. This examination may be an open and/or closed book examination
DP Requirement: Completion of all assignments and assessments

Cardiorespiratory Physiology
HPHS826 W1 (10L-10T-0P-10S-80H-47R-0F-0G-3A-13W-16C)
Aim: To establish in the learner the sound knowledge of those aspects of cardiovascular and respiratory physiology that are needed for an understanding of exercise physiology and the practice of sports medicine.

Content: Acute and long term central and peripheral cardiovascular adaptations to exercise. The response of the respiratory system to exercise and training. Cardiorespiratory evaluation

Assessment: Assessment of student participation in the module by means of evaluating assignments and presentations shall contribute 40% of the total mark of the module. Formal 3-hour examination shall contribute 60% to the final mark of the module. This examination may be an open and/or closed book examination.

DP Requirement: Completion of all assignments and assessments.

### Telehealth

**Contemporary Topics in E-Health**

INFT61C M1 M2  
(26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)

**Prerequisite Requirement:** None  
**Corequisite:** None

Aim: To provide students with an exposure to leading edge topics in e-Health that are not necessarily dealt with in the other modules. This will allow them to reflect on current developments and trends and their applicability and feasibility in the African setting.

Content: Selected topics in eHealth. These will vary annually

Practicals: None  
Assessment: Assignments 50% (Made up of written course papers 50% and short answer questions 50%) Exams=40% Assignments=5 Homework=6 Spot tests=2

DP Requirement: None

**E-Health Project**

INFT61E M1 M2  
(10L-0T-0P-10S-200H-0R-0F-0G-120A-26W-34C)

**Prerequisite Requirement:** None  
**Corequisite:** None

Aim: To plan, undertake, analyse and report on a project in an area of e-health

Content: •Project development •Project reporting •Project to be conducted on a relevant topic in Telehealth or Medical Informatics.

Practicals: None  
Assessment: •Project proposal 20% •Assignments 20% •Written Report 60% Research Project

DP Requirement: None

**Programming 1**

INFT61Y M1 M2  
(40L-0T-7P-0S-47H-10R-0F-3G-53A-13W-16C)

**Prerequisite Requirement:** None  
**Corequisite:** None

Aim: This module aims to develop and refine the learners' basic problem solving and programming skills. The module introduces the students to simple programming structures that allow them to write programs that deal with simple medical informatics systems

Content: This module covers the basic concepts of programming. The students are exposed to simple programing structures that allow the students to write simple programming applications related to medical informatics systems.

Practicals: Practicals involve coding simple medical information systems using a programming language. Thus students are required to have access to a computer that is connected to the internet and has the necessary software installed.

Assessment: Practicals 30% Assignment 50% Class participation 10% Spot Test 10% Theory Examination -TOTAL WEIGHTING =100% T SUBWEIGHTING = 60% Assignments=5 Homework=4

DP Requirement: None
**Telemedicine: Planning, Management and Ethics**  
INFT62M M1 M2  
(26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)

**Prerequisite Requirement:** None  
**Corequisite:** None  
**Aim:** To gain insight in issues relating to planning, implementing, managing and evaluating telemedicine programs in the context of sub-Saharan Africa. These include: the basis for eHealth policy and strategy; the different technologies and communication systems available for telemedicine; videoconferencing and videoconferencing etiquette; the development and use of clinical protocols for telemedicine; recording of telemedicine data (both clinical and technical data); data security for telemedicine; needs assessment; legal and ethical issues of telemedicine; and monitoring and evaluation.

**Content:** Major communication technologies and communication protocols, Videoconferencing and Store and Forward telemedicine, Planning and implementation of telemedicine systems, Management, utilisation and integration of systems, Evaluation and Outcomes, Protocols, Recording data, Security, approaches to adapting international guidelines within the sub-Saharan African context and legal and ethical issues in telemedicine.

**Practicals:** None  
**Assessment:** Written Examination 40%, Assignments 60% Made up of written course papers 50%, short answer questions 30%, group assignments with oral presentations 20% Assignments=5 Homework=8  
**DP Requirement:** None

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**Medical Information Systems**  
INFT641 M1 M2  
(40L-0T-7P-0S-47H-10R-0F-3G-53A-13W-16C)

**Prerequisite Requirement:** None  
**Corequisite:** None  
**Aim:** To introduce to the student, the different areas in healthcare amenable to information technology and communication systems. Particular attention will be paid to the difficulties that must be overcome in developing countries to progress beyond simple prototypes to successful and sustainable projects. Students will gain an appreciation of the past, present and future roles of medical informatics with an emphasis on both clinical and public health perspectives.

**Content:** This module covers the basic concepts regarding medical information systems from a management point of view. The module introduces students to the basics of computer systems in medicine, management of electronic medical records, standards and security in medical informatics systems and contemporary topics such as green computing and mobile health.

**Practicals:** Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.  
**Assessment:** Class Record -Homework - 20% Assignment 60% Class 10% participation Spot Test 10% TOTAL WEIGHTING =60% Theory Examination 100% TOTAL WEIGHTING 40% Exams= 40% Assignments=5 Homework=6 Spot tests=2  
**DP Requirement:** None

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**Public Health and Mgmt of M I systems**  
INFT662 M1 M2  
(26L-0T-0P-4S-90H-10R-0F-0G-30A-0W-16C)

**Prerequisite Requirement:** None  
**Corequisite:** None  
**Aim:** To introduce the student to the role of health information systems in public health and the management of these systems. Obstacles to wide spread implementation and use will be addressed.

**Content:** This module is an introduction to public health and management issues in medical informatics. The students are exposed to implementation issues of medical information systems in developing countries, the basics of public Health informatics, geographic information systems, and evaluation of public health information systems.

**Practicals:** None  
**Assessment:** Written Examination 40%, Assignments 60% Made up of written course papers 50%, short answer questions 30%, group assignments with oral presentations 20% Assignments=5 Homework=8  
**DP Requirement:** None
mHealth and Home Monitoring
INFT6M2 MC (26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: To make students aware of and understand current use of mobile technology in telemedicine, home monitoring, personal monitoring through smart clothes and smart homes, surveillance, data gathering, personal wellness and patient centred care and how this integrates with telemedicine and medical informatics.
Content: The use of mobile technology, cellular telephones, tablet computers, PDAs, cell phone apps and electronic medical devices in the health sector to treat, monitor and promote wellness.
Practicals: None
Assessment: Written Examination 40%, Assignments 60%, Made up of written course papers 50%, short answer questions 30%, group assignments with oral presentations 20%. Exams= 40% Assignments=5 Homework=8
DP Requirement: None

Telemedicine: Applied Skills
INFT6S1 M1 M2 (26L-0T-7P-0S-50H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: The purpose of this module is to provide the student with both knowledge of, and skills in, various technical aspects of telemedicine practice and change management.
Content: Communication technologies and protocols; Videoconferencing (video-cameras, lighting and sound, room design); Peripheral examination equipment, document cameras and digital diagnostic equipment; Digital imaging (cameras, medical photography and image editing); Store and Forward technologies and protocols; Telemedicine guideline development and Change management
Practicals: None
Assessment: Examination 25%, Assignments– 75% (Made up of practical assignments, written course papers, short answer questions, oral presentations and the development of a change management strategy for a telemedicine implementation) Written Examination 40%, Assignments 60% Made up of written course papers 20%, short answer questions 20%, group assignments with oral presentations 40% practical assignments 20% Exams= 40% Assignments=5 Homework=8
DP Requirement: None

Electronic Medical Records
INFT6V1 M1 M2 (40L-0T-7P-0S-50H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To introduce learners to the concepts of electronic medical records and to equip them with the necessary skills to design, code, implement and evaluate electronic medical record systems. This course focuses on the practical issues of electronic medical record systems, particularly its role, difficulties in implementation and possible solutions to difficulties, all in developing countries
Content: The module serves as an introduction to the implementation and management of electronic medical records. This includes the process of installing an electronic medical record, creating an electronic form, and evaluating the system.
Practicals: Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.
Assessment: Homework 20% Assignment 60% Class participation 10% Spot Test 10% Theory Examination - SUBWEIGHTING=100% -TOTAL WEIGHTING 40% Exams= 40% Assignments=5 Homework=6 Spot tests=2
DP Requirement: None

Introduction to Telemedicine
INFT811 MC (26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide a background and introduction to telemedicine in its various forms within the context of Africa
Content: The history of telemedicine and descriptions of, and evidence for, the use of synchronous and asynchronous telemedicine, home monitoring, home care, mHealth and eLearning in health within the African context.
Practicals: None
Assessment: Written Examination 40%, Assignments 60% (Made up of written course papers 60%, short answer questions 20%, oral presentations and group assignments 20%) Exams= 40% Assignments=5 Homework=8
DP Requirement: None

E-Health Project
INFT81E
Prerequisite Requirement: None
Corequisite: None
Aim: To fulfil the project requirement of the postgraduate diploma in Medical Science (Telemedicine) and Postgraduate Diploma in Medical Science (Medical Informatics), students will undertake, analyse and report on a project in an area of e-health relevant to them.
Content: Project to be conducted on a relevant topic in Telehealth or Medical informatics.
Assessment: Submission of Project 100%
DP Requirement: None

Programming 2
INFT81G
Aim: This module builds on the previous programming module to teach more advanced Java skills and improve student's ability to build their own projects.
Content: Review basic Java programming principles. Database connectivity. Database backed websites.
DP Requirement: As per College rule

eHealth Governance
INFT81K
Prerequisite Requirement: None
Corequisite: None
Aim: To provide an understanding of governance of eHealth, related issues and means of addressing within the context of the introduction of telemedicine and eHealth programmes in sub-Saharan Africa.
Practicals: None
Assessment: Written Examination 40%, Assignments 60% (Made up of written course papers 60%, short answer questions 20%, oral presentations and group assignments 20%) Assignments=5 Homework=8
DP Requirement: None

Tele-Education
INFT81L
Prerequisite Requirement: None
Corequisite: None
Aim: This module will provide students with the basic education theories pertinent using ICT technologies to provide education at a distance using either i an ISDN-based or IP based video-conference network, or ii) the internet (Web) and the knowledge and skills necessary to develop and deploy interactive educational programme designed for distribution by video-conference, the web, CD/DVD or other relevant ICT.
Content: Educational theory and principles, curriculum development, interactive tele-education technologies, development of online education courses, evaluation of educational courses.
Practicals: NONE
Assessment: Exam 50%, course work 50% (assignments-40%, class participation - 10%)
DP Requirement: NONE

Introduction to Bio Statistics
INFT81N
Prerequisite Requirement: None
Corequisite: None
Aim: To provide an introduction to the concept, theory and applied skills of basic biostatistics
Content: Introduction to biostatistics, data presentation, basic statistics, introduction to statistics of epidemiology and clinical trials
Practicals: None
Assessment: Coursework 50% (Exercises - 40%, Participation - 10%) Exams= 40% Assignments=5 Homework=8
DP Requirement: NONE

Primer on Medical Information Systems
INFT81P M1
Prerequisite Requirement: None
Corequisite: None
Aim: Computer technology is now increasingly relied on, in the healthcare environment. However, this environment has features that make it uniquely complex and difficult to computerise. This module will introduce to the student, the different areas in healthcare amenable to IT and communication systems. Particular attention will be paid to the difficulties that must be overcome in developing countries to progress beyond simple prototypes to successful and sustainable projects. Students will gain an appreciation of the past, present and future roles of medical informatics with an emphasis on both clinical and public health perspectives.
Practicals: Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.
Assessment: ASSESSMENT SUBWEIGHTING TOTAL WEIGHTING Class Record Homework 20% 60% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams= 40% Assignments=5 Homework=6 Spot tests=2
DP Requirement: None

Experiential Learning in Telemedicine
INFT81X
Prerequisite Requirement: None
Corequisite: None
Aim: To provide the student with an opportunity to participate in telemedicine clinics and experience in the real world the theory and technical applications learned in the other modules.
Content: Practical participation in existing telemedicine programmes; involvement in the planning of telemedicine services and evaluation of thereof.
Practicals: 72% of the module conducted in Tele-health environment.
Assessment: Coursework 100% (Reports-80%, Reflective diary -20%)
DP Requirement: None

Programming 1
INFT81Y
Aim: This module aims to develop and refine the learners’ problem solving and programming skills, to extend their knowledge of a high level programming language, to introduce them to principles of software engineering, and to introduce the functionality of different components in a computer system.
Content: Object-oriented design, programming in a high level language, structured data types, sorting, searching, recursion, program testing. Overview of Computer Systems.
**Assessment:** 1. The software life cycle is outlined and the components of a computer system are identified. 2. The theory of algorithm design and object-oriented programming is applied to design and structure algorithms to solve a range of programming problems. 3. Programming problems are solved at a level appropriate to the programming constructs and concepts learned. 4. Solutions to such a problem are written and implemented in a high level programming language using objects and structured data types. 5. Appropriate testing procedures for programmes are designed and appropriate justification for decisions are provided.

**DP Requirement:** As per faculty rules.

**Security for E-Health**
INFT8A2 M1 M2 (40L-0T-7P-0S-60H-0R-0F-3G-50A-13W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** Computer technology is now increasingly relied on, in the healthcare environment. Because of the privacy and strict confidentiality requirements associated with medical data, security becomes a vital aspect of medical information systems. Particular attention will be paid to what the minimum security requirements should be for a medical information system, types of security protocols, the need for security protocols, difficulties that must be overcome in creating a security model for developing countries to progress beyond simple prototypes to successful and sustainable outcomes. Students will gain an appreciation of the past, present and future roles of security in medical informatics with an emphasis on both clinical and public health perspectives.

**Content:** The module deals with the basics of security in medical informatics systems. Security theory, implementation, various security protocols and the development of security frameworks are covered.

**Practicals:** Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.

**Assessment:** Assessment, Subweighting, Total weighting: Class Record Homework 20% 60% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams=40% Assignments=5 Homework=6 Spot tests=2.

**DP Requirement:** None

**Bioinformatics**
INFT8B2 MC (40L-0T-4P-0S-50H-10R-0F-3G-53A-13W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** Computer technology is now increasingly relied on, in the healthcare environment. One aspect of this domain is bioinformatics and deals with applying computer technology to solve health care problems at a molecular level. This module will introduce to the student, the different areas in healthcare amenable to bioinformatics. Particular attention will be paid to the difficulties that must be overcome in developing countries to progress beyond simple bioinformatics prototypes to successful and sustainable projects. Students will gain an appreciation of the past, present and future roles of bioinformatics with an emphasis on both clinical and public health perspectives.

**Content:** Introduction to Bioinformatics, Biology basics for bioinformatics, Bioinformatics examples and solutions, Sequencing- intro, propose, producing sequences, file formats, Sequencing- blast methods, Genomics, Phylogenetic trees, Bioinformatics databases, Perl Programming, Bioinformatics program using perl, Incorporating bioinformatics into EMRS.

**Practicals:** Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.

**Assessment:** Assessment, Subweighting, Total weighting: Class Record Homework 20% 60% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams=40% Assignments=5 Homework=6 Spot tests=2.

**DP Requirement:** None

**Contemporary Topics in E-Health**
INFT8C1 M2 (26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None
Aim: To introduce the student to the role of health information systems in public health and the management of these systems. Obstacles to widespread implementation and use will be addressed.

Content: This module is an introduction to public health and management issues in medical informatics. The students are exposed to implementation issues of medical information systems in developing countries, the basics of public Health informatics, geographic information systems, and evaluation of public health information systems.

Practicals: None

Assessment: Written Examination 40%, Assignments 60% Made up of written course papers 50%, Short answer questions 30%, Group assignments with oral presentations 20

DP Requirement: None

This module will not be offered in 2006.

Design, Implementation and Evaluation of MIS
INFT8E2 MC (40L-3T-7P-0S-57H-0R-0F-0G-53A-13W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: To introduce learners to the concepts of medical information systems, particularly, electronic medical records, and to equip them with the necessary skills to design, code, implement and evaluate medical information systems. This course focuses on the practical issues of electronic medical record systems, particularly its role, implementation issues in developing countries, measurements of e-readiness, management of medical information systems and leadership.

Content: This module deals with the design, implementation and evaluation of medical information systems.

Practicals: Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.

Assessment: Assessment Sub-weighting Total Weighting Class Record Homework 20% 60% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams= 40% Assignments=5 Homework=6 Spot tests=2

DP Requirement: None

Programming Medical Informatics Systems
INFT8F2 M1 M2 (40L-0T-7P-0S-60H-0R-0F-0G-53A-13W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: This module aims to develop and refine the learners’ problem solving and programming skills, to extend their knowledge of a high level programming language, to introduce them to principles of software engineering, and to introduce the functionality of different components in a mobile application.

Content: This module teaches students complex Java programming techniques like: object orientated programming, databases and ontologies and includes techniques of programming Mobile devices.

Practicals: Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.

Assessment: Assessment Sub-weighting Total Weighting Class Record Homework 20% 100% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams= 40% Assignments=5 Homework=6 Spot tests=2

DP Requirement: None

Epidemiology & Res Methodology in E-Health
INFT8O1 (0L-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)

Prerequisite Requirement: None

Aim: To introduce students to epidemiology and to equip students with research skills

Content: Introduction to epidemiology, Introduction to statistical analysis software; Study Designs; Clinical trials; Screening; Surveillance; Research protocol & Ethics application.

Practicals: NONE

Assessment: Coursework 50% (Exercises - 15% Protocol - 25%, participation - 10%) Exams= 40% Assignments=5 Homework=8

DP Requirement: Completion of online ethics good practice certificate
International eHealth
INFT8Q M1 M2
(26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide students with current information about leading edge development and issues globally in eHealth.
Content: This will vary annually and will be drawn from issues raised in eHealth conferences and major eHealth web sites.
Practicals: None
Assessment: Exam 40% Course work 50% (Assignments – 50%) Assignments=5 Homework=8
DP Requirement: None

eHealth from Theory to Practice
INFT8T2 MC
(26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide understanding of the practical issues associated with introduction of telemedicine and eHealth programmes in the sub-Saharan Africa context, and means and approaches to addressing them.
Content: Information and Communications Technology (ICT) options for eHealth and telemedicine. ICT implementation theory and planning. Change management theory and planning. Development of a detailed implementation plan within the sub-Saharan African context.
Practicals: None
Assessment: Written Examination 40%, Assignments 60% (Made up of written course papers 60%, short answer questions20%, oral presentations and group assignments 20%) Assignments=5 Homework=8
DP Requirement: None

Medical Artificial Intelligence
INFT8U2 MC
(40L-0T-7P-0S-70H-0R-0F-3G-40A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: This module will introduce to the student, the different areas in healthcare amenable to artificial intelligence. Particular attention will be paid to the difficulties that must be overcome in developing countries to progress beyond simple prototypes to successful and sustainable projects. Students will gain an appreciation of the past, present and future roles of artificial intelligence with an emphasis on both clinical and public health perspectives
Content: This module deals with the design, implementation and programming of machine learning algorithms to solve medical problems. The module consists of understanding, programming and evaluating multi layer perceptrons, probability algorithms, genetic computing, and various back propagation algorithms.
Practicals: Practicals involve implementing medical information systems, and students are required to have access to a computer that is connected to the internet.
Assessment: ASSESSMENT SUBWEIGHTING TOTAL WEIGHTING Class Record Homework 20% 60% Assignment 60% Class participation 10% Spot Test 10% Theory Examination 100% 40% Exams= 40% Assignments=5 Homework=6
Spot tests=2
DP Requirement: None

Electronic Medical Records
INFT8V1
(26L-10T-11P-0S-60H-30R-0F-0G-23A-0W-16C)
Aim: To introduce learners to the concepts of electronic medical records and medical coding and to enable them to acquire the skills necessary to evaluate electronic medical record systems. It will focus on the practical issues of implementing such systems and ensuring that they are accepted and used.
Content: Principles of EMRs Types of EMR Usability and pitfalls of Electronic Medical Records systems Critical success factors of Electronic Medical Records systems Medical coding standards Data manipulation and cleaning Data visualization Representation of medical data Current research in Electronic Medical Records systems
Assessment: Classwork-50%,Theory Exams:50%
DP Requirement: As per faculty rules.
Medical Artificial Intelligence
INFT8W1 (0L-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)
Aim: Through the study of the theoretical concepts and medical applications of one or more areas of artificial intelligence learners will acquire the necessary skills to appropriately apply artificial intelligence techniques to solve real world medical problems. Learners will also be able to analyze research currently being conducted in the chosen areas.
Content: An in-depth study of one or more artificial intelligence areas, e.g. expert systems, machine learning, neural networks, knowledge bases, automated theorem-proving, natural language processing. -Implementing the artificial techniques in the chosen areas to solve medium to large scaled medical problems. -A critical analysis of the research currently being conducted in this field.
Assessment: Class work 50% Tests 50%
DP Requirement: As per faculty rules.

Economics and Assessment of eHealth
INFT8X2 MC (26L-0T-0P-4S-90H-10R-0F-0G-30A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide theoretical understanding and develop skills and knowledge applicable to planning, implementing, managing and evaluating telemedicine and eHealth
Content: Rationale for assessment, including needs assessment, readiness assessment, evaluation and outcomes, knowledge transfer to inform policy makers and approaches to economic assessment of telemedicine and eHealth programmes within the sub-Saharan African context.
Practicals: None
Assessment: Written Exam 40% Course work 60% (Made up of written course papers 60%, short answer questions 20%, oral presentations and group assignments 20%) Assignments=5 Homework=8
DP Requirement: None

E-Health Research Project
INFT8Z1 (0L-0T-0P-0S-960H-0R-0F-0G-0A-0W-96C)
Prerequisite Requirement: INFT801, INFT8N1
Corequisite: None
Aim: Experience in planning, completing and publishing a research project under supervision.
Content: Students are expected to work with a research supervisor to conduct research in an area of Telemedicine or Medical Informatics of relevance to them, which is approved by the Higher Degrees Committees. The student then has to complete the project as outlined in the proposal and prepare a research report and an article based on the research.
Assessment: Submission of dissertation 100%
DP Requirement: As per faculty rules.

LMMS-Research Project

Research Project
LMMS8RP HC MC WC (0L-0T-0P-10S-1565H-0R-0F-20G-45A-0W-164C)
Prerequisite Requirement: None
Prerequisite Modules: PMED801
Corequisite: None
Aim: The module aims to facilitate independent completion of a research project under the guidance of a research supervisor on a relevant, current and contextual medical topics; and production of a research report in the form of a dissertation or a peer reviewed journal article for publishing in a SAPSE recognized journal.
Content: Theoretical knowledge of research including (i) the scientific selection of an appropriate research topic, (ii) conducting a relevant literature review aligned to the research paradigm of choice; (iii) data collection (iv) data analysis and (v) write up of results and dissemination of research findings.
Practicals: None
Assessment: Research Project 100%.
DP Requirement: A scientifically acceptable research proposal, which must be approved by Academic Leader Research and the relevant ethics committee of UKZN.

### Medicine

#### Medicine Clinical & Prof Prac 1
**MEDI8A5 MC**

(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** None  
**Corequisite:** None  

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.  

**Content:** Selected topics from physiology, pharmacology, clinical measurement, clinical chemistry, anatomy and pathology, with special focus on general principles with which internal medicine is concerned.  

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.  

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper.  

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

#### Medicine Clinical & Prof Prac 2
**MEDI8A6 MC**

(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** MEDI8A5  
**Corequisite:** None  

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.  

**Content:** Selected topics from physiology, pharmacology, clinical measurement, clinical chemistry, anatomy and pathology with special focus on general principles with which internal medicine is concerned.  

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.  

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: One 3-hour MCQ paper, One 3-hour written paper, Objective test. Clinical cases – one long case, 2 short cases. The weighting for the examination is: Paper 1 – 10%, Paper 2 – 10%, Objective test – 20%, Clinical cases – 60%, (30% for long case and 15% each for short cases).  

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.
Medical Microbiology

Advanced Immunology
MMGY7AI M2 (22.5L-3T-0P-0S-65H-43.5R-0F-0G-26A-15W-16C)

**Prerequisite Requirement:** None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

**Corequisite:** None

**Aim:** To provide students with a detailed knowledge and understanding of the immune system focusing on human health from infectious and auto-immune disease to vaccines.

**Content:** Innate or Nonspecific system; Adaptive or Specific system; T cell activation, migration, memory and ontogeny; Humoral Immunity; Cell-adhesion, Regulation and autoimmunity; HIV Immunology; TB Immunology; Mucosal immunology; Microbiome and immunity to microbes; Genetic influences on immunity; Vaccines

**Practicals:** None

**Assessment:** Assessment consists of 40% formative and 60% summative marks Formative: Test (20%); Assignment/presentations/debate (20%); Summative: 1 x 3 hour theory exam (60%)

**DP Requirement:** Class mark of 40%, 80% attendance at lectures

Advanced Laboratory Techniques
MMGY7AL M1 (22.5L-3T-45P-0S-24.5H-30R-0F-0G-35A-8W-16C)

**Prerequisite Requirement:** None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

**Corequisite:** None

**Aim:** The overarching aim of this module is to provide an in-depth theoretical and practical understanding of selected advanced techniques in Molecular Biology and Microbiology, as well as analytical and problem solving abilities.

**Content:** Theory and practicals in basic and advanced molecular biology and Medical Microbiological techniques: Techniques in laboratory safety, nucleic acid, protein analysis, bioinformatics, light and electron microscopy, analytical techniques, tissue culture, immunology and Microbiology

**Practicals:** Practical sessions involving hands-on exposure to specialized techniques in molecular biology and Medical Microbiology.

**Assessment:** Final mark consists of 50% formative and 50% summative marks Formative: Tests: 2 practical (10% each); 1 assignment/presentation (10%); 1 theory test (20%) Summative: 1 x 3 hour exam (Theory) (30%) Practical portfolio (20%)

**DP Requirement:** Class mark of 40%, 80% attendance at practicals and lectures.

Microbial Pathogenesis
MMGY7F1 M2 (22.5L-3T-0P-0S-65H-43.5R-0F-0G-26A-15W-16C)

**Prerequisite Requirement:** None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

**Corequisite:** None

**Aim:** To provide students with a good understanding of the mechanisms of microbial pathogenesis that is important for students who want to pursue infectious disease research.

**Content:** Introduction to pathogenesis of microbial infection including colonization of the host, routes of transmission, mechanisms of host invasion, disease onset as well as host defence mechanisms against microbe invasion and spread.

**Practicals:** None

**Assessment:** Formative: Test: 20%; Assignment/presentation: 20% Summative: Examination: 60%

**DP Requirement:** Class mark of 40%, 80% attendance at lectures

Advanced Medical Microbiology
MMGY7MV M1 (22.5L-3T-0P-0S-65H-43.5R-0F-0G-26A-15W-16C)

**Prerequisite Requirement:** None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

**Corequisite:** None
Aim: To provide students with a good understanding of bacterial physiology, anatomy and genetics, and be able to relate how bacterial structure affects the mechanism of action of antimicrobial drugs

Content: Bacterial physiology; Bacterial anatomy; Bacterial genetics; Antimicrobial agents

Practicals: None

Assessment: Formative: 40%: (2 theory tests: 20% and assignment/presentation: 20%) Summative: 60% examination

DP Requirement: Class mark of 40%, 80% attendance at lectures.

Research Project in Medical Microbiology
MMGY7RP MY

(0L-0T-27P-26S-323H-23R-0F-0G-81A-26W-48C)

Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

Corequisite: None

Aim: To develop research capacity in Medical Science, and to develop students with initiative, problem-solving ability, communication skills (written and oral) and technical expertise, as well as an advanced level of knowledge in their field of specialisation (either Anatomy, Human Physiology, Medical Biochemistry, or Medical Microbiology).

Content: Formulation of a research question and hypothesis, literature review, referencing tools, research protocol development, ethics application, oral presentation of protocol, training in selected, specialized laboratory techniques specific to project, laboratory experimental work, analysis and interpretation of results and manuscript writing and oral presentation of completed project.

Practicals: Project- related laboratory experimental work under supervision

Assessment: Final mark consists of 20% formative and 80% summative marks Formative: written proposal and oral presentation: 20% Summative: Written manuscript (50%); oral presentation of final project (20%); mastery of laboratory skills (10%)

DP Requirement: None

Advanced Medical Virology
MMGY7V1 M1

(28L-4T-4P-8S-45H-15R-0F-0G-56A-15W-16C)

Prerequisite Requirement: None. Students gain acceptance into the BMedSc Honours programme with an appropriate Bachelor’s degree or equivalent.

Prerequisite Modules: None

Corequisite: None

Aim: To develop a broad understanding of virus replication strategies and pathogenesis and their public health impact.

Content: Virus structure, classification, replication strategies, pathogenesis, host immune responses, immune evasion, viral vaccines, viruses in gene therapy and selected topics/viruses, for example oncogenic viruses, emerging viruses, influenza, HIV vaccines, HIV drug resistance and immune evasion.

Practicals: 4 NSH for HIV-1 drug resistance interpretation practical as follows: •Algorithms: 1 NSH •Navigating the website: 1 NSH •Guided exercises: 2 NSH

Assessment: Formative assessment: 40% (20% essays, 10% on-line practical test, 10% presentation) Summative assessment: 60% examination.

DP Requirement: Class mark of 40%, 80% attendance at practicals and lectures.

Med Micro Clin & Prof Practice 1
MMGY8B2 MC

(400L-120T-470P-60S-300H-95R-1130F-0G-125A-90W-270C)

Prerequisite Requirement: None

Prerequisite Modules: None

Corequisite: None

Aim: To provide registrars with a sound grounding in basic sciences underlying the theory and practice of Medical Microbiology, to introduce them to the practice of this specialty and strengthen their grasp of professional ethics and professional behaviour.

Content: Fundamentals of Medical Microbiology (including bacteriology, virology, mycology and parasitology). Laboratory diagnostics and safety, Antimicrobial agents, Introduction to basic immunology, Infection prevention and control.

Practicals: None
**Assessment:** Formative: A portfolio book is given to registrars at the start of their training to record their activities (100%). The portfolio book is assessed at the end of each year, and forms the basis of the progression decision. Students may also be required to write selected medical microbiology honours examination papers. Summative: At the end of the module, students do one three-hour written paper (sub-minimum 50%), one practical examination over 3 days (sub-minimum 50%) and oral examination (sub-minimum 50%) (100%).

**DP Requirement:** Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

**Med Micro Clin & Prof Practice 2**

**Prerequisite Modules:** MGY8B3

**Corequisite:** None

**Aim:** The aim of the module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of clinical virology at a specialist level without supervision.

**Content:** The epidemiology, laboratory diagnosis & management of infectious diseases, The interpretation of laboratory results in the clinical context, Hospital and community infection control and Laboratory management including regulatory issues, laboratory safety and quality assurance.

**Practicals:** None

**Assessment:** Formative: A portfolio book is given to registrars at the start of their training to record their activities, and is assessed at the year end. Summative: College of Medicine examination is written comprising: Written examination - (2 papers) weighted 50%, with a subminimum of 50% for each paper. Practical examination over 3 days - weighted 40%, with a subminimum of 50%. Oral examination - weighted 10%, with a subminimum of 50% or a UKZN examination is written: 2 written papers (50% weighted) plus 3 day laboratory practical (40% weighted) and an oral examination (10% weighted). A minimum of 50% mark for each paper, practical and oral is required.

**DP Requirement:** Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.

**MedM3M2 Medical Microbiology**

**Prerequisite Modules:** BIOC201 or 203.

**Aim:** To instill core knowledge of the principles of human virology; the diagnosis, treatment and prevention of viral disease in humans; and the application of science and technology to the study of viruses.

**Content:** Viral taxonomy, pathogenesis and immunology. Diagnosis, treatment and prevention of viral disease (including viral vaccines, gene therapy and antiviral drugs). Common examples of viruses causing human disease (Hepatitis B and C, Polio, influenza, HIV). Molecular Virology and Bioinformatics including antiretroviral resistance and recombinant DNA technology.

**Assessment:** Classmark (40%), 3 h exam (60%).

**DP Requirement:** 40% classmark, 80% attendance at all lectures and tutorials, 100% attendance at all tests.

**Non-Biomedical Science students taking this module as an elective must have been vaccinated against Hepatitis B at their own expense.**

**MedV3V1 Molecular Virology**

**Prerequisite Modules:** BIOC201 or 203.

**Aim:** To instill core knowledge of the principles of human virology; the diagnosis, treatment and prevention of viral disease in humans; and the application of science and technology to the study of viruses.

**Content:** Viral taxonomy, pathogenesis and immunology. Diagnosis, treatment and prevention of viral disease (including viral vaccines, gene therapy and antiviral drugs). Common examples of viruses causing human disease (Hepatitis B and C, Polio, influenza, HIV). Molecular Virology and Bioinformatics including antiretroviral resistance and recombinant DNA technology.

**Assessment:** Classmark (40%), 3 h exam (60%).

**DP Requirement:** 40% classmark, 80% attendance at all lectures and tutorials, 100% attendance at all tests.
Non-Biomedical Science students taking this module as an elective must have been vaccinated against Hepatitis B at their own expense.

**Neurology**

**Neurology Clinical & Prof Prac 1**

NEUR8A5 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** None  
**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Neuro-anatomy, neurophysiology, neuropathology, neuro-immunology, microbiology, principles of electrophysiology.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour papers with 4 questions each (25 marks each)

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

**Neurology Clinical & Prof Prac 2**

NEUR8A6 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** NEUR8A5  
**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

**Content:** Diagnosis and management of a wide range of neurological conditions.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination consisting of two 3-hour papers; Clinical examination comprising of several short neurological cases, one or more long neurological cases; OSCE consisting of 20 stations. The weighting of each component is as follows: Written papers – 30% (subminimum 50%); Clinical cases – 50 % (subminimum 50%); OSCE – 20% (subminimum 50%)

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.
Neurosurgery

Neurosurgery Clinical & Prof Prac 1
NSUR8A5 MC
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To develop competence in the foundation sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.
Content: Anatomy, Physiology, Pharmacology, Pathology. The principles of general surgery and the principles of surgical speciality disciplines.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment for Part 1 is constituted as follows: Two 3-hour papers on basic sciences; One 3-hour paper of short written questions on basic neuroanatomy Intermediate Examination: One 3-hour paper on the principles of surgery in general principles of surgical speciality disciplines; Viva Voce examination on each of the principles of surgery in general and the principles of surgical speciality
DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

Neurosurgery Clinical & Prof Prac 2
NSUR8A6 MC
Prerequisite Requirement: None
Prerequisite Modules: NSUR8A5
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: The theory and practice of neurosurgery including pre-operative and post-operative treatment and the applied basic sciences anatomy, physiology and pathology.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination of Three 3-hour papers (out of 100%); 3 papers equally weighted; Oral and Clinical Examination (out of 100%); Long cases – 40%; Short cases – 30%; Viva Voce – 30%. Each component needs to be passed separately.
DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.
Nursing

Fundamental Nursing
NURS100 HY
(48L-12T-24P-16S-67H-20R-80F-48G-5A-30W-32C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide students with an introduction to basic nursing care of individuals, groups.
Content: Deals with the self care needs/basic human needs/activities of living of individuals and families, both healthy and sick of all ages. The focus of the course is the wellbeing of individuals, groups and communities. Includes assessment of self care, analysis of need for assistance, formulation of a care plan, implementation and evaluation of nursing interventions. Also focuses on professional writing skills.
Practicals: Assessment of self-care individuals and groups in settings for healthy persons, introduction to hospitals. Clinical skills related to basic nursing care and the elderly. Personal safety as a health practitioner is the focus of this course.
Assessment: 2 tests, 4 projects, 1 two hour examination paper and one practical examination
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Principles & Methods of Teaching & Evaluation
NURS102 H2
(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)
Prerequisite Requirement: Registration as a nurse
Prerequisite Modules: None
Corequisite: None
Aim: To introduce the student to different approaches to teaching.
Content: Teaching Theories. Teaching methods and technology. Design of an educational programme and module. Classroom and clinical student evaluation. The practical implications of teaching principle, and designing lessons...
Practicals: 10 teaching lessons and 5 clinical demonstrations
Assessment: One 2-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Theories of Learning for Health Professional
NURS103 H2
(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: NURS102
Aim: To expose students to current debates in nursing education.
Content: Selected learning theories including cognitive, behavioural, social, experiential and adult learning theories, as well as motivational theories. Application of learning theories to nursing education
Practicals: 20 hours in clinical skills laboratory.
Assessment: One 3-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Fundamental Nursing 1
NURS111 H1
(35L-0T-25P-0S-20H-5R-54F-15G-6A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: To prepare the learner in knowledge and competencies required for providing basic nursing care; self-care needs/basic health needs/activities of daily living, nutrition and universal infection control precautions in sick or well individuals and families of all ages.
Content: The nurse in the Health Care Settings • General concepts and their definitions (Nurse, nursing, nursing practice and Fundamentals of nursing) • Roles and functions of the nurse-midwife • The nurse and health care team in hospital and in community settings • Application of ethics and values in nursing and midwifery practice • Health and Illness Concepts of health, wellness, illness and disease. The health continuum • Health determinants/ Factors influencing health • Effects of hospitalization and/ or illness • The Health Care Delivery System • Organization of health care delivery system in the country • Health Care Services • Legal framework for Nursing Practice • National Health Policies • Theories, Nursing Models and Interactive Process • Introduction to selected theories, models and the Nursing Process • Maslow's Hierarchy of needs • Florence Nightingale’s environmental theory, Virginia Henderson's nursing model and Imogene King Goal attainment theory, • Documentation and reporting • Provision of safe environment • Hospital environment • Care of ward environment, equipment and linen • Risk status assessment of patient and health care unit • Safety management • Principles of infection control and infection control measures • Bed making and bed accessories • Body mechanics • Principles of body mechanics, • Lifting and moving clients, • Positions used in nursing • Basic Client Needs • Activities of daily living • Hygiene, Mobility, Respiratory, cardiovascular needs, Nutritional needs, Fluid therapy, Urinary and Faecal Elimination processes , Assessments and management of selected signs and symptoms of a client with Fever, rigors, Hypothermia, Nausea and Vomiting, Diarrhoea, Transfer, discharge and referral plan of a client • Competence in respect of the following clinical procedures: • Admission procedure • Hand washing • Bed making • Bathing • Bed bath • Shower bath • Assisted bath • Oral care • Taking of height and weight • Taking and recording T.P.R and BP • Monitoring and recording of blood glucose levels • Physical assessment • Practice of filling in Nursing Care Plan Template • Moving, lifting and positioning patients • Measuring and recording fluids • Care of hair and nails • Serving meals • Feeding clients • Offering of a bedpan and a urinal • Cather care including emptying of a urinary catheter bag • Insertion of naso-gastric tube • Oxygen administration • Sputum collection and disposal • Collection of and Examination of specimens - urine, sputum, stools, vomitus • Urinalysis • Decontamination • Fire drill • Use of protective clothing • Transfer and discharge procedures

Practicals: No fieldtrips as all students will be engaged in service learning

Assessment: Formative Assessment (40%) • Competencies 40% • Test 20% • Assignment 40% • Summative Assessment (60%) • Examination 50% • OSCE 50% • Test x 1, Assignment 1, Examination X 1

DP Requirement: 75% class attendance 100% attendance in the clinical environment save for those which they are excused

Fundamental Nursing Science 2
NURS112 H2
(35L-0T-25P-0S-20H-5R-54F-15G-6A-14W-16C)
Prerequisite Modules: NURS111
Corequisite: None

Aim: To prepare the learner in knowledge and competencies required for providing basic nursing care; Health Education, foundations of emergency care and fluid management, pain, sleep and death and dying and the support of the family

Content: • Emergency care • Aims and principles of First Aid • Bandaging and splinting • Methods of lifting and transportation • Management of clients with the following emergency conditions: Asphyxia, Cardiac arrest, Hemorrhage, Shock, Unconsciousness, injury • Fractures, sprain and dislocations • Spinal and chest injuries • Drowning • Wounds • Burns and scalds • Fluid Therapy • Simple wound care • Fits/ epileptic fit and infantile convulsions • Fainting and exhaustion • Fire and ward accidents (including drill) • Poisoning Gases, Food poisoning, Paraffin, spirit and alcohol • Corrosives, strong acids and alkalines • Pain management, Death and Dying • Pain assessment • Pain management, Pharmacological and non-pharmacological measures • Managing relatives of a dying patient • Last offices • Grieving process

Practicals: No fieldtrips as all students will be engaged in service learning

Assessment: Formative Assessment (40%) • Individual Assignment 33.3% • Group Assignment 33.3% • Competencies 33.3% • Summative Assessment (60%) • Theory Examination paper 50% • OSCE 50% • Test x 1, Assignment 1, Examination X 1

DP Requirement: 75% class attendance 100% attendance in the clinical environment save for those which they are excused

Mental Health Nursing 1
NURS120 H1 H2
(48L-12T-24P-16S-67H-20R-80F-48G-5A-30W-32C)
Prerequisite Requirement: Registration as a general nurse
Corequisite: NONE

Aim: To prepare nurses for community-based mental health care.


Practicals: In community and primary health care settings

Assessment: One 3-hour paper. One practical examination.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Nursing Management 1
NURS130 HY (48L-12T-24P-16S-67H-20R-80F-48G-5A-30W-32C)

Prerequisite Requirement: Must be a registered nurse.

Prerequisite Modules: None

Corequisite: None

Aim: To introduce middle level managers to the processes and structures involved in managing a clinic.

Content: This is a case based course, which centres on the role of a person managing a clinic. A comprehensive study of aspects such as human resource management, quality assurance, community outreach, problem-solving and conflict resolution, team and group dynamic, and communication is dealt with in an integrative manner.

Practicals: Organise open day in community.

Assessment: Two tests, two assignments, one case study, on 3-hour exam.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting save those from which they have been officially excused.

Mental Health Nursing 2
NURS200 HY (48L-12T-24P-16S-67H-20R-80F-48G-5A-30W-32C)

Prerequisite Requirement: Registration as a general nurse

Prerequisite Modules: NURS120

Aim: To prepare nurses for community-based mental health care.

Content: The principles and practice of psychosocial rehabilitation of people with a psychiatric disability. Vocational, social, personal and educational aspects of rehabilitation. The problem of stigma. The primary prevention of mental illness

Practicals: In community and primary health care settings

Assessment: Two 3-hour papers, of which one is an integrative paper covering both year courses. One practical examination.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Service Learning in Nursing
NURS201 HC (0L-8T-0P-0S-40H-0R-81F-31G-0A-0W-16C)

Prerequisite Requirement: NONE

Corequisite: NONE

Aim: To enrich practice with intensive theoretical scrutiny.

Content: In this module students are given tasks in health services for the benefit of the service and the community in a structured way to allow them to develop specific skills and knowledge. Tasks may be in the field of education management or clinical practice.

Practicals: 100 hours in task completion.

Assessment: Written project report and portfolio.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Oncological Conditions
NURS204 H2 (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)
Prerequisite Requirement: Registration as a General Nurse
Prerequisite Modules: NURS205
Corequisite: NONE
Aim: To study the most common oncological conditions and their treatment.
Practicals: NONE
Assessment: 1 two-hour paper
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Foundations of Oncology
NURS205 H1 (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)
Prerequisite Requirement: Registration as a General Nurse
Corequisite: NONE
Aim: To introduce nurses to the basic principles of oncology.
Content: The principles of cancer biology and pathophysiology. Epidemiology, staging and prevention. Psychosocial and economic aspects of illness and care. Oncology in the formal and informal health systems.
Practicals: NONE
Assessment: One 2-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Unit Management and Teaching
NURS207 HC (40L-0T-14P-0S-0H-0R-77F-29G-0A-0W-16C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To prepare first line nurse managers
Content: This module focuses on the leadership role of the nurse as unit manager. It deals with the cardinal aspects of first line management such as supervision, financial and human resource management and clinical teaching. It also aims at improving the management of the health care information system at this level.
Practicals: Assignments in work settings.
Assessment: One 2 hour paper and a unit portfolio
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Critical Care Nursing A
NURS211 H2 (36L-9T-18P-44H-20R-60F-36G-5A-13W-24C)
Prerequisite Requirement: Registration as a General Nurse
Prerequisite Modules: None
Corequisite: NONE
Aim: To prepare clinical nurse specialists in critical care.
Content: A case and competency based curriculum built around the competencies of the nursing process (assessment, diagnosis, planning, implementation and evaluation) and the body systems of an individual (respiratory, cardio-vascular, neuro, renal, fluid/electrolyte). The appropriate scientific foundations in pathophysiology, pharmacology, microbiology and social sciences will be incorporated into the competencies.
Practicals: Comprehensive, individualised nursing care of at least 12 patients in critical care settings covering various disciplines
Assessment: 1 three-hour paper and 1 practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, minimum practical requirements in the clinical setting.
Critical Care Nursing B
NURS212 H2 (36L-9T-18P-12S-44H-20R-60F-36G-5A-13W-24C)
Prerequisite Requirement: Registration as a General Nurse
Corequisite: NURS211
Aim: To prepare clinical nurse specialists in critical care
Content: A case and competency based curriculum built around the competencies of the nursing process (assessment, diagnosis, planning, implementation and evaluation) and the body systems of an individual (respiratory, cardio-vascular, neuro, renal, fluid/electrolyte). The appropriate scientific foundations in pathophysiology, pharmacology, microbiology and social sciences will be incorporated into the competencies.
Practicals: Comprehensive, individualised nursing care of at least 13 patients in critical care settings covering various disciplines.
Assessment: 1 three-hour paper and 1 practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting, save those from which they have been officially excused.

Preventive and Promotive Health - Theory 1
NURS213 H1 (20L-0T-0P-5S-50H-10R-0F-69G-6A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: NURS215
Corequisite: NURS211
Aim: This module equips learners with knowledge of nursing in the community, including the patient’s home, schools, health centres, and other health and social work agencies. It introduces the learners to concepts used in community health nursing, the legal and theoretical frameworks guiding community health nursing practice, and functioning of the health care system in the country. Concepts of Primary Health Care (PHC), epidemiology and family centered care as an approach to health care delivery and the nursing process are applied. This module also prepares the learner for school health nursing, disaster management, home-based care, forensic health and health in the workplace as well as in correctional services. Emphasis is placed on primary health care, health promotion and disease prevention. This module builds on fundamentals of nursing, health assessment, bio-pyschosocial and communication modules.
Content: Theoretical basis of community health nursing The art and science of community health nursing Introduction to epidemiology Communicable Diseases: Prevention and Intervention Health Promotion Environmental Health Family Health
Practicals: See Preventive and Promotive Health
Assessment: Formative Assessment 40% • Group Assignment 50% • Individual Assignment 50% Summative assessment 60% .Examination 50% •Problem solving (Triple jump examination) 50% .Assignment x 1, Test x 1, Examination x1
DP Requirement: Candidate must attend at least 75% of all classes

Preventive and Promotive Health - Theory 2
NURS214 H2 (20L-0T-0P-5S-50H-10R-0F-69G-6A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: NURS213
Corequisite: NURS215
Aim: This module equips learners with knowledge of nursing in the community, including the patient’s home, schools, health centres, and other health and social work agencies. It introduces the learners to concepts used in community health nursing, the legal and theoretical frameworks guiding community health nursing practice, and functioning of the health care system in the country. Concepts of Primary Health Care (PHC), epidemiology and family centered care as an approach to health care delivery and the nursing process are applied. This module also prepares the learner for school health nursing, disaster management, home-based care, forensic health and health in the workplace as well as in correctional services. Emphasis is placed on primary health care, health promotion and disease prevention. This module builds on fundamentals of nursing, health assessment, bio-pyschosocial and communication modules.
Content: School Health •Community Home-based care and Palliative Care •Occupational Health Nursing •Rehabilitation •Disaster Nursing •Foundations of Program management
Practicals: See Preventive and Promotive Health
**Assessment:** Formative Assessment 40% • Group Assignment 50% • Individual Assignment 50% Summative assessment 60% .Examination 50% •Problem solving (Triple jump examination) 50% Assignment x 1, Test x 1, Examination x 2

**DP Requirement:** Candidate must attend at least 75% of all classes

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**Preventive and Promotive Health - Clinical 1**

NURS215 H1

(0L-0T-0P-16S-33H-20R-85F-0G-6A-32W-16C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** NURS112

**Corequisite:** NURS213,NURS214

**Aim:** This module aims to equip learners with basic community health nursing competencies required to function in different community-based settings. Furthermore, it develops learners in functioning as members of the team and in building partnerships

**Content:** Skills •Community profiling •Community development •Conducting an epidemiological study •Family health assessment •Community mobilization •Community project planning and implementation •Health Programme evaluation •Developing a health education programme •Teaching skills •Use of visual aids •Compiling weekly/monthly health statistics •Multidisciplinary team working •Care of terminally ill patients in the community

**Practicals:** Health centers, community, client’s home, schools, crèches, families, work places, water works and sewerages, information office at the hospital and clinic, community based organisations such as rehabilitation centres, centres for abused victims, orphanages, hospices = 505hrs

**Assessment:** Formative assessment (40%) •Competencies/Assignment 50% •Test 50% Summative assessment (60%) •Problem solving (Triple jump examination) 50% •Practical skills examination (OSCE) 50% Competencies, Test x1, OSCE x 1

**DP Requirement:** Candidate must attend 100% of placement in the setting allocated save for those from which excused

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**Nursing Research Theory**

NURS217 HC

(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)

**Aim:** To introduce students to the research process in nursing.

**Content:** The research process in nursing. Data collection methods and instruments. Research design and sampling. Data analysis and description. Writing research reports. Evaluation research and quality control.

**Assessment:** one 2-hour paper.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting, save those from which they have been officially excused.

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**Nursing Philosophy**

NURS219 HC

(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)

**Aim:** To introduce nurses to the philosophy of the profession.

**Content:** The characteristics of nursing and the professional nurse. Models, theories and philosophies of nursing. The historical development of nursing as an academic discipline and a profession. Nursing ethics.

**Assessment:** 1 two-hour paper.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Curr Devel for Health Programmes**

NURS221 H1

(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** NURS102,NUR103

**Corequisite:** None

**Aim:** To prepare a tutor competent in the process of developing a curriculum, and to introduce educators to management of a college

**Content:** The process of curriculum development. Different types of curricula and their underlying philosophy. The system of NQF and its implications for professional education. Introduction to programme evaluation and quality improvement in higher education, and college administration.
Practicals: (A group project) and design a curriculum and 10 hours Educational Administration spent at an approved Nursing Education Institution.

Assessment: One 2-hour paper.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Advanced Clinical Practice
NURS223 HC
(40L-0T-10P-0S-0H-0R-72F-28G-0A-15W-15C)

Prerequisite Requirement: NONE

Corequisite: NONE

Aim: To equip unit managers with advanced clinical skills

Content: This module addresses the advanced clinical skills which a generalist unit manager needs in order to take the leadership in a unit. It has a compulsory component which focuses on high care and emergency nursing, as well as aspects of community nursing. Students can then choose another component (mental health or adult and child health). It gives additional knowledge and skills, without focusing on just one specialty area.

Practicals: Assignments in work settings

Assessment: One 2-hour paper and clinical portfolio.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Issues in Health Professional Education
NURS224 H2
(24L-6T-12P-8S-62H-20R-0F-24G-4A-13W-16C)

Prerequisite Requirement: None

Prerequisite Modules: NURS102,NURS103

Corequisite: None

Aim: To expose students to current debates in nursing education.

Content: Exploration of current trends influencing health professional education such as NQF, Open and Distance Learning Technology in Higher Education, innovative teaching and learning methodologies such as problem-based learning, case-based learning, community-based learning Quality Assurance in Higher Education, and special didactics for specific disciplines.

Practicals: 20 hours in clinical skills laboratory.

Assessment: One 2-hour paper.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Medicl and Surgical Nursing 1 - Theory
NURS225 H2
(30L-0T-0P-50H-10R-0F-64G-6A-14W-16C)

Prerequisite Requirement: None

Prerequisite Modules: NURS214,NURS215

Corequisite: NURS226

Aim: The module will enable the learner to provide care to patients with respiratory, cardiovascular, gastrointestinal, endocrine disorders and conditions, and HIV and AIDS and the management of clients with paediatric disorders and conditions

Content: This module is problem based dealing with health and health related nursing problems experienced in the hospitals. Nursing management of clients with: •respiratory disorders and conditions •cardiovascular disorders and conditions •gastrointestinal disorders and conditions •endocrine disorders and conditions •HIV and AIDS

Practicals: None

Assessment: Formative assessment 40% – all the following to have a minimum pass mark of 50% in each of the following -Written assignments – 50% -Test - 50% Summative evaluation 60% Average of term mark - 50% written Examination – 50% Triple Jump – 50% Assignment x 1, Test x 1, Examination x 1

DP Requirement: Candidate must attend at least 75% of all classes
Medical and Surgical Nursing 1 - Clinical
NURS226 H2
Prerequisite Requirement: None
Prerequisite Modules: NURS214, NURS215
Corequisite: NURS215
Aim: The module will equip learners with the competencies to provide care to patients with respiratory, cardio-vascular, gastrointestinal, endocrine disorders and conditions, and HIV and AIDS and the management of clients with paediatric disorders and conditions
Content: This module is problem based dealing with health and health related nursing competencies experienced in the hospitals. Competencies to manage clients with: •respiratory disorders and conditions •cardiovascular disorders and conditions •gastrointestinal disorders and conditions •endocrine disorders and conditions •HIV and AIDS Taking antibiotics, AIDS medications, Bronchodilators, Electrolyte supplements and Steroids Nursing management of paediatric clients
Practicals: Students are placed in hospitals for the year. 443 practical hours for the module
Assessment: Formative Assessment 40% •Clinical Skills Laboratory utilisation 50% •test 50% Summative Assessment 60% Average of term mark - 50% Objective Structured Clinical Examination (OSCE) - 100 Competencies, Test x1, OSCE x 1
DP Requirement: Candidate must attend 100% in clinical setting, save those from which they have been officially excused.

Preventative and Promotive Health
NURS230 HY
Prerequisite Requirement: NONE
Corequisite: NURS100
Aim: To experience the process of entering a community for health promotion, illness prevention, and implementing health promotion scientifically.
Content: The nature of nursing, health and illness. Health promotion and illness prevention in communities and families. The process of community assessment and individual health screening, problem identification and analysis through the life span with special emphasis on the young child, and community involvement.
Practicals: Students are placed in communities, where they have to implement a health promotion/illness prevention project. Students complete a compulsory course in HIV/AIDS counselling.
Assessment: 4 projects, 1 two and a half-hour theory exam, one practical project, and one problem-solving examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Primary Care 1
NURS231 H2
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: To equip PHC nurses to diagnose and treat minor and common ailments in children and adults.
Content: Principles of health assessment, emergency care, diagnosis and treatment of minor, common and chronic illnesses in adults and children. All systems as well as reproductive health and communicable diseases will be dealt with. Pharmacology and the EDL will be integrated comprehensively. Ethical and medico-legal aspects will be addressed.
Practicals: Supervised sessions in health services, and workbook completed in a PHC setting.
Assessment: Two 2-hour papers. One paper will deal specifically with pharmacology. One practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Primary Care 2
NURS232 H1
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: To equip PHC nurses to diagnose and treat minor and common ailments in children and adults.
Content: Principles of health assessment, emergency care, diagnosis and treatment of minor, common and chronic illnesses in adults and children. All systems as well as reproductive health and communicable diseases will be dealt with. Pharmacology and the EDL will be integrated comprehensively. Ethical and medico-legal aspects will be addressed.
Practicals: Supervised sessions in health services, and workbook completed in a PHC setting.
Assessment: Two 2-hour papers. One paper will deal specifically with pharmacology. One practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.
**Prerequisite Requirement:** Registration as a General Nurse  
**Prerequisite Modules:** NURS231  
**Corequisite:** None  
**Aim:** To equip PHC nurses to diagnose and treat minor and common ailments in children and adults.  
**Content:** Principles of health assessment, emergency care, diagnosis and treatment of minor, common and chronic illnesses in adults and children. All systems as well as reproductive health and communicable diseases will be dealt with. Pharmacology and the EDL will be integrated comprehensively. Ethical and medico-legal aspects will be addressed.  
**Practicals:** Supervised sessions in health services, and workbook completed in a PHC setting.  
**Assessment:** Two 2-hour papers. One paper will deal specifically with pharmacology. One practical examination.  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Foundations of Neonatology**  
NURS233 H1  
**(24L-6T-12P-8S-22H-20R-40F-24G-4A-15W-16C)**  
**Prerequisite Requirement:** Registration as a General Nurse & Midwife  
**Prerequisite Modules:** None  
**Corequisite:** None  
**Aim:** To prepare midwives and critical care nurses to work with critically ill neonates.  
**Content:** The principles of neonatal embryology and neonatal pathophysiology. Epidemiology of neonatal conditions. Common and serious conditions of body systems affecting the neonate: prevention, diagnosis, treatment and care. Resuscitation of the neonate. Pharmacology for the neonate.  
**Practicals:** Exposure to low-care, high-care, normal nursery and caesarean section theatre.  
**Assessment:** One 2 hour paper and one practical examination.  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Trauma Nursing**  
NURS234 H2  
**(24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)**  
**Prerequisite Requirement:** Must be a registered nurse.  
**Corequisite:** Advanced Cardiac Life Support or Advanced Paediatric Life Support  
**Aim:** To prepare a trauma nurse specialist.  
**Content:** This module deals with the anatomy, physiology and pathophysiology underlying trauma and emergency interventions. Emergency assessment and triage. Life support in cases of emergency care, as well as, during transport of critically ill persons will be studied.  
**Practicals:** Emergency nursing care of the client in the pre-hospital and hospital setting.  
**Assessment:** One two-hour paper and one practical examination.  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Neonatal Nursing**  
NURS235 H2  
**(24L-6T-12P-8S-22H-20R-40F-24G-4A-15W-16C)**  
**Prerequisite Requirement:** Registration as a General Nurse & Midwife  
**Prerequisite Modules:** NURS233  
**Corequisite:** None  
**Aim:** To prepare a clinical nurse specialist in neonatal critical care.  
**Content:** Creating a safe environment for the neonate, physically and psychosocially. Nutrition and fluid and electrolyte balance in the neonate. Transporting of neonates. Ensuring continuity of care between different service levels. Caring for the family of the high risk and dying neonate. Management of a neonatal unit. Consultation and teaching role of the neonatal nurse specialist.  
**Practicals:** Exposure to low-care, high care, intensive care, nursery and labour ward.  
**Assessment:** One two-hour paper and one practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Nursing Management 2
NURS240 H1 H2
Prerequisite Requirement: NURS130
Corequisite: See Prerequisite
Aim: To prepare mid-level managers who can manage a small hospital.
Content: This is a case based course, which centres on the role of a person in charge of a small hospital. A comprehensive study is made of requisitioning a new facility, accreditation and inspection, participative management, strategic planning and organisational climate and change. The teaching aspect of health services and information systems are also dealt with.
Practicals: practical assignments and instruction in institutional and extra-institutional service - 90 hours, assignment in a clinical setting, situational analysis in a hospital nursing management setting.
Assessment: 2 tests, 1 case study, 5 assignments, two 3-hour exams.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Advanced Mental Health Nursing 1
NURS250 H1
Prerequisite Requirement: Mental Health Nursing 1 and 2.
Corequisite: NONE
Aim: To prepare a clinical nurse specialist with advanced skills and knowledge.
Content: The diagnosis, treatment, rehabilitation and care of complex psychiatric cases referred to them. Deal with treatment and rehabilitation resistant conditions or clients. Consultancy to Primary Health Care service providers Psycho-education and treatment and rehabilitation protocols. Community-based rehabilitation program development.
Practicals: Completion of assignments based in workplace.
Assessment: 1 three-hour paper. One practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

General Nursing 2
NURS260 H1
Prerequisite Requirement: General Nursing 1
Corequisite: NONE
Aim: To complete the upgrading of enrolled nurses to professional nurses and teaches unit administration.
Content: Nursing Care of patients requiring intensive care. Disaster nursing. Ethos and Professional Practice and unit administration is included.
Practicals: 10 hours of individualised student accompaniment
Assessment: 4 tests, 1 clinical exam, three-hour paper theoretical exam
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Community Health Nursing
NURS262 HY H1 H2
Prerequisite Requirement: Registration as a General Nurse & Midwife
Prerequisite Modules: None
Corequisite: NONE
Aim: To prepare nurses for rendering aggregate care.
Content: A community and problem-based course. Environmental health care Infectious diseases Individual and family focused primary health care Community assessment and planning Health care systems Delivery of primary health care Epidemiology.
Practicals: 240 hours in various community settings
Assessment: Two 2-hour papers. One practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Community Health Nursing 2
NURS263 (0L-0T-0S-230H-0R-0F-90G-0A-0W-32C)
Prerequisite Modules: NURS 262HY
Corequisite: None
Aim: To prepare nurses for rendering aggregate care.
Content: A community and problem-based course. Environmental health care Infectious diseases Individual and family focused primary health care Community assessment and planning Health care systems Delivery of primary health care Epidemiology.
Practicals: 240 hours in various community settings
Assessment: Two 2-hour papers. One practical examination
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Advanced Midwifery
NURS300 HY (48L-12T-24P-16S-67H-20R-80F-48G-5A-26W-32C)
Prerequisite Requirement: Midwifery
Corequisite: NONE
Aim: To prepare midwives with additional skills and knowledge.
Content: The assessment, management and health education of women with high risk pregnancy, labour and peperium, and termination of pregnancy. Skills in referral, consulting and managing midwifery programmes in urban and rural areas will be included. Epidemiology and context of such services and ethical problems.
Practicals: Antenatal, labour, postnatal and neonatal units
Assessment: 1 two- hour papers and one practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

General Nursing
NURS301 H1 (72L-18T-36P-24S-112H-20R-120F-72G-6A-15W-48C)
Prerequisite Requirement: NURS230, Anatomy, four social science courses
Aim: To master the nursing care of clients in general hospitals with common illnesses.
Content: Problems of patients in all developmental stages in general nursing settings will be analysed based on a theoretical framework. The physiological, pharmacological, social, psychological and other implications will be explored and possible solutions suggested and tested. Mastery (of clinical procedures needed in these clinical areas will be demonstrated. Application of research to clinical practice will be done.
Practicals: Nursing care in all types of wards in general hospitals.
Assessment: 1 OSCE and 1 Triple Jump
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Issues in Critical Care Nursing
NURS303 H1 (24L-6T-12P-8S-22H-20R-40F-24G-4A-15W-16C)
Prerequisite Requirement: None
Prerequisite Modules: NURS225,NURS226
Corequisite: NURS306
Aim: Expose the nurse to analysis of the context of critical care in SA.
Content: A care and competency based curriculum built around the contingency, task environmental competencies of the Critical Care Nurse (family, team and services competencies, as well as community and professional competencies). It will incorporate critical care issues in rural and urban settings, as well as all contextual factors.
Practicals: Work in various critical care settings analysing the context from which patients come
Assessment: 1 two-hour paper and one project.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Medical and Surgical Nursing 2 - Theory
NURS304 H1
Prerequisite Requirement: None
Prerequisite Modules: NURS214, NURS215
Corequisite: Medical and Surgical Nursing 2 - Clinical
Aim: The module will enable the learner to provide care to patients with blood and immune system, Immuno deficiency, Leukaemia and Haemorrhagic disease conditions and disorders and the nursing management of clients taking anticoagulants, anti-thyroid medications and thyroid supplements disorders and conditions
Content: This module is problem based dealing with health and health related nursing problems experienced in the hospitals. Nursing management of clients with: blood and immune system conditions and disorders Immuno deficiency disorders and conditions Leukaemia Haemorrhagic disease conditions and disorders Taking anticoagulants, anti-thyroid medications and thyroid supplements
Practicals: None
Assessment: Formative assessment 40% – all the following to have a minimum pass mark of 50% in each of the following - Assignment – 50% - Test - 50% Summative evaluation 60% Average of term mark - 50% Examination – 50% Triple Jump – 50% Assignment x 1, Test x 1, Examination x 1
DP Requirement: Candidate must attend at least 75% of all classes

Medical and Surgical Nursing 2 - Clinical
NURS306 H1
Prerequisite Modules: Medical and Surgical Nursing 1 – Theory and Surgical Nursing 1- Clinical
Aim: The module will equip learners with the competencies to provide care to patients with blood and immune system, Immuno deficiency, Leukaemia and Haemorrhagic disease conditions and disorders and the nursing management of clients taking anticoagulants, anti-thyroid medications and thyroid supplements.
Content: This module is problem based dealing with health and health related nursing competencies experienced in the hospitals. Competencies to manage clients with: blood and immune system, Immuno deficiency, Leukaemia and Haemorrhagic disease conditions and disorders the nursing management of clients taking anticoagulants, anti-thyroid medications and thyroid supplements
Practicals: Students are placed in hospitals for the year. 443 practical hours for the module
Assessment: Formative Assessment 40% - Clinical Skills Laboratory utilisation 50% - Test 50% Summative Assessment 60% Average of term mark - 50% Objective Structured Clinical Examination (OSCE) - 100 Competencies, Test x 1, OSCE x 1
DP Requirement: Candidate must attend 100% in clinical setting, save those from which they have been officially excused.

Facilitation of Recognition of Prior Learning
NURS307 H2
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: This module is aimed at preparing educators to facilitate the RPL process in an institution as an administrator, advisor and/or assessor.
Content: Theoretical and Philosophical underpinings; Historical background, Benefits of RPL; Process of RPL; RPL Policy Formulation (Institutional). Orientation of Exit Level Outcomes; Design an RPL programme for a specific Target Group, Assessment methods; Portfolio Development process and product and Portfolio Assessment; Quality Assurance in RPL.
Practicals: RPL advising and institutional policy development, RPL assessment and Own Portfolio Development.
Assessment: 1 Two hour paper and 3 practical Case Presentations
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Research in Nursing
NURS308 H2 (18L-30T-0P-32H-6R-0F-68G-6A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: NURS214
Corequisite: NONE
Aim: This self-directed, problem-based module in nursing research aims to facilitate learners develop research skills relevant to nursing and the nursing field. Further to this, the aim of this module is facilitate students to use an experiential approach to facilitate learners' understanding of research, nursing research, the research process, the ability to carry out own research, and utilize reports from other studies
Content: This module contains relevant information to introduce students to research process in nursing from the conceptualization of the research problem to writing up and evaluating the completed study. The module will cover an overview of the research process and research methodology; research designs (qualitative and quantitative approaches); sampling methods and sample size, data collection procedures (methods and instruments); ethical issues involved in nursing research, critiquing a research article and scientific writing
Practicals: None
Assessment: Formative Assessment 40%: Test 33.3 % Individual Assignment 33.3% Group Assignment 33.3%
Summative Assessment 60% Term Mark 50% Exam 100 Assignment x 1, Test x 1, exam x 1
DP Requirement: Candidates must attend at least 75% of all classes

Advanced Mental Health Nursing 2
NURS310 HY (48L-12T-24P-16S-67H-20R-80F-48G-5A-30W-32C)
Prerequisite Requirement: Advanced Mental Health Nursing 1.
Corequisite: NONE
Aim: To prepare a nurse specialist to give leadership in District Mental Health Care.
Practicals: Completion of assignments based in workplace.
Assessment: 2 three-hour papers, of which one is an integrative paper covering the work of both years. one practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

International Nursing
NURS311 HC (0L-18T-12P-0S-30H-0R-72F-28G-0A-0W-16C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To involve nurses in comparative health.
Content: In this module students will be exposed to the health care system of a foreign country, and assisted in analyzing specific aspects of that system in comparison with their own. This will include service delivery and human resource development (education) as well as the wider context of the service. Students will be prepared for the international experience, given tasks to complete during the experience, and assisted with analysis of information after the exposure.
Practicals: 72 hours in a foreign health service.
Assessment: Portfolio and written project.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.
Reproductive and Sexual Health
NURS312 H2

Prerequisite Requirement: None
Prerequisite Modules: NURS304, NURS306
Corequisite: None

Aim: To provide students with the competencies to manage Reproductive and Sexual Health issues of adolescents, adult individuals and families within primary health care settings, Midwifery and Obstetrics and Gynaecology and work within a multi sectorial team. To equip the learner with knowledge, skills and attitude in the Reproductive and Sexual Health assessment of patients across the lifespan.

Content: Students will be equipped with skills to be competent to assess, diagnose, plan and implement management in a competent manner regarding the following sexual and reproductive and youth health competencies:
• Gynaecological and Urological Issues
• Nursing care of patients following abortions and terminations of pregnancy, Hysterectomy, Carcinoma of the Cervix
• Nursing care of men following prostatectomy (Trans urethral resection), carcinoma of the prostate,
• Family Planning
• STI
• Promotion of healthy Reproductive and Sexual Health
• National Guidelines for Sexual and Reproductive Health
• Adolescent and Youth friendly Services
• Paradigm shift to improve access to Reproductive and Sexual Health Care
• Sexually Transmitted Infections (Syndromic Approach Management)
• Standard Treatment Guidelines at PHC level
• Termination of Pregnancy
• Legislative frameworks for Reproductive and Sexual Health
• Reproductive Health referral frameworks

Practicals: Clinical practice placement in Obstetrics, Gynaecology and Urology units, STI and family planning clinics related to reproductive and sexual health.

Assessment: Formative assessment (40%) • Assignment 50% • Test 50% Summative Assessment (60%) - Term mark - 50% Clinical OSCE - 50% Assignment x 1, Test x 1, OSCE x 1

DP Requirement: Candidate must attend at least 75% of all classes 100% of attendance in clinical areas save for the condoned absences

Administration in Nursing Units
NURS313 H2

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: NONE

Aim: To enable learners to manage a health care unit, whether in a hospital or a community setting.

Content: Firstly line human and material resource management, managing ethical dilemmas, and developing clients and staff.

Practicals: Placement in a unit as first line manager, with a mentor.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Medical and Surgical Nursing 3 - Theory
NURS315 H2

Prerequisite Requirement: None
Prerequisite Modules: NURS304, NURS306
Corequisite: None

Aim: The module will enable the learner to provide care to patients with surgical Lung cancer, cardiovascular and Allergic disorders and conditions and the nursing management of clients requiring anaphylactic shock, immunosuppressant and Anti-cancer drugs

Content: This module is problem based dealing with health and health related nursing problems experienced in the hospitals. Nursing management of clients with: Lung cancer, cardiovascular disorders and conditions, Allergic disorders and conditions, the nursing management of clients requiring anaphylactic shock, immunosuppressant and Anti-cancer drugs

Practicals: Students are placed in hospitals for the year.

Assessment: Formative assessment – all the following to have a minimum pass mark of 50% in each of the following
• Written assignments – 25%
• Test - 25%
• Seminar presentation – 25%
• Clinical skills laboratory utilization – 25%
Summative evaluation – Average of term mark - 50% Written Examination – 33% Triple Jump – 33% OSCE – 33%

**DP Requirement:** Candidate must attend at least 75% of all classes. Candidate must attend 100% in clinical setting, save those from which they have been officially excused.

**Medical and Surgical Nursing 3 - Clinical**

NURS316 H2 (0L-0T-39P-0S-50H-10R-55F-0G-6A-14W-16C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** NURS304, NURS306

**Corequisite:** NURS315

**Aim:** The module will equip learners with the competencies to provide care to patients with surgical Lung cancer, cardiovascular and Allergic disorders and conditions and the nursing management of clients requiring anaphylactic shock, immunosuppressant and Anti-cancer drugs.

**Content:** This module is problem based dealing with health and health related nursing competencies experienced in the hospitals. Competencies to manage clients with: •Lung cancer, •cardiovascular disorders and conditions •Allergic disorders and conditions •the nursing management of clients requiring anaphylactic shock, immunosuppressant and Anti-cancer drugs,

**Practicals:** Students are placed in hospitals for the year. 443 practical hours for the module

**Assessment:** Formative Assessment (40%) •Test 50% •Clinical Skills Laboratory utilisation 50% Summative Assessment (60%) - Average of term mark - 50% Objective Structured Clinical Examination (OSCE) - 100%

**Competencies, Test x1, OSCE x 1**

**DP Requirement:** Candidate must attend 100% in clinical setting, save those from which they have been officially excused.

**Obstetrics and Foundation of Midwifery**

NURS317 H2 (30L-0T-0P-0S-50H-10R-0F-64G-6A-14W-16C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** NURS304, NURS306

**Corequisite:** NURS315

**Aim:** This module is designed to equip the learners with the knowledge of preconception and pregnancy to enable the learner to provide care to the expectant mother and her family

**Content:** Fertilization and foetal development, Labour and delivery, Postnatal Care

**Assessment:** Formative assessment 40% – all the following to have a minimum pass mark of 50% in each of the following-Assignment – 50% -Test - 50% Summative evaluation 60% – Average of term mark - 50% Examination – 100% Assignment x 1, Test x 1, Examination x 1

**DP Requirement:** Candidate must attend at least 75% of all classes. Submission of completed Reflective Journal

**Nursing Research Project**

NURS319 H2 (0L-0T-16S-288H-0R-0F-16G-0A-13W-32C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** NURS217

**Corequisite:** NURS315

**Aim:** To allow students to practice their research skills

**Content:** Students are required to complete a mini research project individually or in small groups, working with health services staff. They work through the total process from proposal to report stage.

**Practicals:** NONE

**Assessment:** A research project.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Oncological & Palliative Nursing**


**Prerequisite Requirement:** None
Syllabi

Prerequisite Modules: NURS204, NURS205
Corequisite: NONE
Aim: To produce a clinical nurse specialist in oncological and palliative care nursing.
Content: Planning and implementation of holistic and comprehensive specialized care for people with Cancer and their families. Dealing with specific problems such as pain, nutrition,
Practicals: NONE
Assessment: 2 two-hour papers. One practical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Nursing 302
NURS331 H2
(72L-18T-36P-24S-120F-72G-6A-15W-48C)
Prerequisite Requirement: NURS230, Anatomy, four social science courses.
Corequisite:
Aim: To master the nursing care of clients in general hospitals with common illnesses.
Content: Problems of patients in all developmental stages in general nursing settings will be analysed based on a theoretical framework. The physiological, pharmacological, social, psychological and other implications will be explored and possible solutions suggested and tested. Mastery (of clinical procedures needed in these clinical areas will be demonstrated. Application of research to clinical practice will be done.
Practicals: Nursing care in all types of wards in general hospitals.
Assessment: 1 x 3 hour paper and 1 Triple Jump (with 1 OSCE station)
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Managing Learning Organisations
NURS341 H1
(24L-6T-12P-8S-42H-20R-24G-4A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: Learners credited with this module should be able to lead organisational learning in the health sector and therefore contribute to enhanced personal and health sector organisation development for quality patient outcomes.
Content: To demonstrate a critical understanding of learning organisation theories, principles and approaches including emerging issues within the context of human resource management in the South African health sector. To critically discuss the commonly cited key factors for successful building of a learning organisation, and challenges facing learning organisation change agents within the current health sector context.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Evaluation of Health Care Programmes
NURS342 H2
(24L-6T-12P-8S-42H-20R-24G-4A-14W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: Learners credited with this module are able to: conduct a systematic and comprehensive evaluation of health programmes aimed at improving the health of the people.
Content: Analyse and evaluate models of programmes evaluation with specific reference to their relevance for the South African health and social context. Plan and implement a locally driven evaluation of a health care programme. Conduct a comprehensive review of literature related to global and local policy and its influence on local health policies and programmes. Work with colleagues in the dissemination of research-based evaluation data to relevant audiences.
Assessment: Seminars, projects (individual and group) to promote writing presentation and interpersonal skills and group discussions on contextual variable affecting health care delivery.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.
Issues Related to HIV/AIDS
NURS343 H1
Prerequisite Requirement: Registration as a General Nurse
Prerequisite Modules: NURS344
Corequisite: None
Aim: Learners credited with this module will be equipped to deal with clinical issues that are related to HIV/AIDS. Learners accredited with this module will be able to practice and manage patient under their care, utilising knowledge related to special issues associated with HIV/AIDS for maximum care and patient totality. They will be able to take into consideration ethical and legal issues, psychosocial issues, networking and continued education, patient education as well as community aspects.
Content: Ethical and legal concerns; Issues related to dispensing; Psychosocial Aspects; Networking and continuing education; Patient education; Community Aspects; Skills Development; Advocacy and pressure groups functioning e.g. Treatment Action Campaign; Gender Issues
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Fundamentals of HIV/AIDS
NURS344 H1
Prerequisite Requirement: Registration as a General Nurse
Prerequisite Modules: None
Corequisite: None
Aim: Learners accredited with this module will be able to practice in clinical settings to do pre and post test counselling, screening and assessment of clients with HIV/AIDS. Learners will be also able to plan and institute a wellness programme for HIV positive clients until they are eligible for ARV’s. To equip and empower students on fundamentals and standard of care of HIV/AIDS.
Content: Epidemiology of HIV/AIDS; Immunology and Virology; Origins and History of HIV/AIDS; Natural History of the Disease; Routes of Transmission; Clinical Presentation & Staging of HIV/Aids; HIV/Aids diagnosis- ACCVT different tests e.g. ELISA, Rapid test, PCR, Antigen Test; Baseline and monitoring tests & Investigations, e.g. CD 4, VL, LFT, Chest X-ray, U/S etc.; Pre and Post Test Counselling
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

HIV/AIDS Care in Preg, Labour & Pueperium
NURS345 H2
Prerequisite Requirement: Registration as a General Nurse & Midwife
Prerequisite Modules: NURS344
Corequisite: None
Aim: Learners credited with this module will be equipped and empowered with knowledge of managing HIV in Pregnancy, Labour, Lactation and infant/mother follow up care. Nurses will also be able to prevent cervical cancer by monitoring. They will also be able to manage the neonate born of HIV positive women up to late childhood. At the end of this module students will also be able to manage HIV positive patients in pregnancy during antenatal, intra and postnatal periods, and to incorporate PMTCT programme.
Content: HIV/Aids in pregnancy and labour, puerperium and lactation; Pre Natal, and Post Natal Prevention of cervical cancer in HIV/Aids; Management and monitoring of cervical cancer in HIV/Aids; Management of the neonate born from HIV positive mother; STI management e.g. syndromic and clinical; HIV/Aids in women; Paediatric HIV; Course of HIV in children; Management of opportunistic infection in children; ART in Children; Psychosocial Aspects of Care in children
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

HIV/AIDS Nursing Management
NURS346 H2
Prerequisite Requirement: Registration as a General Nurse & Midwife
Prerequisite Modules: NURS344
Corequisite: None
Aim: Student accredited with this module will be able to manage and monitor patients with HIV/AIDS, maximally and totally, including treatment with HIV/AIDS. Students will be able to empower the patients about their treatment plan, so as to provide optimum care.

Content: Positive Living; Levels of care and referrals; National ARV guidelines and different classes of ARV’s; Universal precautions, occupational risk and PEP; Prophylaxis AIDS Care; Pharmacovigilence, Documentation & Reporting; TB Management; Symptom Management and control; Self care strategies in Health care

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Psychiatric Nursing
NURS401 HC
(72L-36P-24S-112H-20R-120F-72G-6A-15W-48C)

Prerequisite Requirement: None
Prerequisite Modules: NURS302, HPHS2NU
Corequisite: None

Aim: To prepare students to assist mental health care users and their families / carers

Content: A study of problems (actual and potential) of mental health care users, their families / carers that is district and community based. Clinical examples are used and the process of problem-solving will form the basis of course. Pharmacological treatment and psycho-social rehabilitation will receive particular attention. A community based experience will be used to study the problems and management of families and communities, and the role of the community health nurse in address these problems in partnership with the community.

Practicals: Exposure to mental health care, mainly in community settings.

Assessment: 1 three-hour paper; 1 practical examination, 1 problem-solving exam, 1 group project, 3 individual assignments.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Psychiatric Nursing
NURS402 H1 H2
(36L-12S-40H-8R-58G-6A-14W-16C)

Prerequisite Requirement: None
Prerequisite Modules: NURS 315 H2, NURS316 H2, HPHS2NU
Corequisite: None

Aim: To equip learners with knowledge and skills for the identification and management of mental health/psychiatric disorders and the necessary mental health promotion strategies to prevent or mitigate their impact. To prepare students to assist mental health care users and their families / carers within a primary health care (including mental health care clinics and specialized psychiatric care facilities) context

Content: Assessment of a patient with psychiatric/mental health problems Pathophysiological causations of psychiatric disorders Patients with Anxiety Disorders Patients with mood disorders Patients with Psychotic disorders Substance use disorders Psychiatric disorders common in children and adolescents Personality disorders Therapeutic nursing Interventions Intellectual and physical disability

Practicals: Possible visitation of cognitive and behavioural disability facilities (when available).

Assessment: Summative Assessments [40%] Assignment 50% test 50% Formative Assessments [60%] Examination 50% problem-solving exam (Triple Jump); 50% Assignment x 1, Test x 1, Examination x 1

DP Requirement: 75% class attendance Submission of all assignments

Primary Health Care
NURS403 HW
(0L-22T-0S-24H-75F-29G-4A-6W-16C)

Prerequisite Requirement: None
Prerequisite Modules: NURS301, NURS302
Corequisite: None

Aim: To enable learners to manage health problems of individuals and families at Primary Health Care settings, and work with a multi-sectoral team in such settings.

Practicals: Practice in Primary Health Care clinics and visit occupational health settings.

Assessment: One 2 hour paper and one practical examination.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Midwifery

NURS405 HC (72L-18T-36P-112H-20R-72G-6A-15W-48C)

Prerequisite Requirement: None

Prerequisite Modules: NURS 302, HPHS2NU

Corequisite: NONE

Aim: To prepare students to care for a pregnant woman and her family during pregnancy, labour and the postnatal period.

Content: A study of normal and abnormal pregnancy, labour, puerperium and the neonate, based on case studies from clinical settings. Problems encountered will be analysed, drawing on biomedical and social sciences. Mastery of midwifery procedures needed in these areas will be expected. Professional practice will be studied in terms of ethical dilemmas, using ethical theory, and legal and professional guidelines. The history and current issues facing the profession will be analysed.

Practicals: Exposure to and practice in antenatal, labour, post-natal care and neonatal units.

Assessment: 1 three-hour paper; one practical examination, a problem-solving examination and a year mark

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Primary Care - Theory

NURS410 H2 (40L-0T-40P-5S-26H-10R-40F-41G-3A-15W-16C)

Prerequisite Requirement: None

Prerequisite Modules: NURS 315, NURS 316

Corequisite: None

Aim: To equip the learner with knowledge, skills and attitude in the health assessment of patients across the lifespan. To enable students to manage health problems of individuals and families at primary health care settings and work with Multi sectorial team.

Content: National guidelines for the management of chronic diseases • Standard Treatment Guidelines at PHC level • Sexually Transmitted Infections (Syndromic Approach Management) • Integrated management of childhood illnesses • Communicable disease

Practicals: None

Assessment: Formative (40%) • Assignments 50% • Test 50% Summative Assessment (60%) • Examination = 50% • Clinical OSCE = 50% Assignment x 1, Test x 1, Examination x 1, OSCE x 1

DP Requirement: Candidate must attend at least 75% of all classes

Primary Care - Clinical

NURS411 H2 (0L-0T-40P-5S-26H-10R-40F-41G-3A-15W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: To enable students to manage health problems of individuals and families at primary health care settings and work with Multi sectorial team. To equip the learner with knowledge, skills and attitude in the health assessment of patients across the lifespan.

Content: National guidelines for the management of chronic diseases • Standard Treatment Guidelines at PHC level • Sexually Transmitted Infections (Syndromic Approach Management) • Integrated management of childhood illnesses • Communicable disease
Assessment: Formative assessment (40%) Practical assessment in authentic clinical settings physical examinations 20% Weekly physical assessment and recording of findings including 20% Health history, review of systems (ROS) and recording of data 20% Performance of an Examination 20% Summative Assessment (60%) Clinical OSCE = 100%

DP Requirement: Candidate must attend at least 75% of all classes

Midwifery 1 - Theory
NURS412 H1 H2
Prerequisite Requirement: None
Prerequisite Modules: NURS317
Corequisite: NURS415
Aim: This module is designed to equip the learners with the knowledge of preconception and pregnancy to enable the learner to provide care to the expectant mother and her family
Content: Fertilization and foetal development Labour and delivery Postnatal Care
Practicals: None
Assessment: Formative assessment 40% – all the following to have a minimum pass mark of 50% in each of the following - Assignment – 50% - Test (Reflective Journal) – 50% Summative evaluation 60% – Average of term mark - 50% - Examination – 50% - Triple Jump - 50% Assignment x 1, Test x 1, Examination x 1
DP Requirement: Candidate must attend at least 75% of all classes Submission of completed Reflective Journal

Midwifery 2 - Theory
NURS414 H1 H2
Prerequisite Requirement: None
Prerequisite Modules: NURS412
Corequisite: NURS416
Aim: The module will enable the learner to provide care to women with medical and obstetric conditions and complications during pregnancy, labour and delivery, and postnatal period. Learners will be equipped with necessary competencies for managing women with medical and obstetric emergencies
Content: •Medical conditions related to pregnancy •Obstetric conditions •Labour and obstetric complications •Post natal complications
Practicals: •Rotation through – Antenatal; Post natal, Intra-partum and Neonatal care areas = 1000hrs •Clinical skills laboratory hours – 25 hours •Attend review meetings at Nelson Mandela Medical School – 5 hours added to clinical hours •Reflective journal
Assessment: Formative assessment 40% – all the following to have a minimum pass mark of 50% in each of the following - Assignment – 50% - Test - 50% Summative evaluation 60% – Average of term mark - 50% Examination – 50% Triple Jump - 50% Assignment x 1, Test x 1, Examination x 1, OSCE x 1
DP Requirement: Candidate must attend at least 75% of all classes •00% attendance of clinical hours, signed by the registered midwife and totalled according to units •Completed and signed midwifery competencies in the Midwifery Register

Midwifery 1 - Clinical
NURS415 H1 H2
Prerequisite Requirement: None
Prerequisite Modules: NURS317
Corequisite: NURS412
Aim: The module will enable the learner to provide care to women in the prefertility period, antenatal, labour and postnatal care. The module exposes the learner to enable them acquire competencies for provision of care to women pre-fertility period, antenatal, labour and postnatal care. Learners will rotate in various clinical settings: high risk antenatal ward, labour and delivery room and postnatal wards to acquire relevant competencies.
Content: Obtain initial and on-going history on each ANC visit. Calculate the estimated date of delivery. Make accurate diagnosis of pregnancy and other conditions which may affect pregnancy. Perform physical examination of a woman during pregnancy, labour and puerperium Identify any deviations from normal and refer timely. Educate the woman about nutritional requirements to promote a healthy pregnancy and healthy foetus. Identify danger signs during pregnancy, labour and puerperium Assess foetal well being Order/carry out and interpret the screening tests during
pregnancy. Provide the appropriate prophylaxis/supplements during pregnancy (Ferrous Sulphate, folic acid, multivitamins, calcium and albendazole). Utilize the midwifery management process to manage clients based on the individual’s needs. Conduct HIV counselling, testing and management of pregnant women and families in line with the national PMTCT guidelines. Educate clients and their families to promote self-care and facilitate informed decision making as regards the pregnancy. The education will include (personal hygiene; risks of STIs, HIV and, safer sex; use of unprescribed drugs and alcohol in pregnancy, smoking, exercise, infant feeding, danger signs, nutrition, and importance of delivering at health facilities, signs of labour and routine follow up visits). Collaborate with the individual, family, other health care workers and the relevant stakeholders to provide quality midwifery care to women during pregnancy, labour and postnatal. Communicate effectively with clients and provide relevant counseling in the whole process of continuum of care within the cultural context of the client. Monitor and evaluate antenatal, labour and postnatal care based on the national guidelines and protocols. Document all findings including investigation and intervention appropriately

Practicals: Rotation through – Antenatal; Post natal, Intra-partum and Neonatal care areas = 1000hrs Clinical skills laboratory hours – 25 hours Attend review meetings at Nelson Mandela Medical School – 5 hours added to clinical hours Reflective journal

Assessment: Formative assessment 40% – Clinical Skills lab - 100% Summative evaluation 60%– Average of term mark - 50% OSCE – 100% Competencies, Test x1, OSCE x 1

DP Requirement: 100% attendance of clinical hours, signed by the registered midwife and totalled according to units Completed and signed midwifery competencies in the Midwifery Register

Psychiatric Nursing - Clinical
NURS441 H1 H2

Prerequisite Requirement: None
Prerequisite Modules: NURS 315,NURS316
Corequisite: NURS402

Aim: To equip learners with skills/ competencies for assessing diagnosing and managing persons with mental health/psychiatric disorders across the lifespan using a variety of management modalities and identifying social factors that hinder/promote attainment of mental health

Content: Competency 1: Care Provision- Assessment of a Mental Health/ Psychiatric client Competency : Care Provision- Planning and Implementation of care Competency : Therapeutic communication and interrelationships Competency: Quality Improvement and Evidence-based practice Competency: Professionalism Competency : Teamwork and Collaboration Competency: Safety and Comfort

Practicals: Placement in District Hospitals; Primary Health Care Clinics; facilities for people with reduced mental capacity; = 270 hrs in the clinical facilities, 80 hrs for practical assignments, 25 hrs for Clinical skills Lab learning activities

Assessment: Formative Assessment 40% +Assignment - 50% +Clinical Competencies – 50% Summative Assessment 60% - 50% of Term Mark +OSCE - 100% Competencies, Test x1, OSCE x 1

DP Requirement: 75% attendance Completion of 90% clinical learning hours Submission of all assignments

Nursing Management (Second Year)
NURS700 HY

Prerequisite Requirement: Nursing Degree OR Nursing Honours Degree
Prerequisite Modules: None
Corequisite: None

Aim: To prepare first line nurse managers.

Content: The health service of South Africa and its management. Major organisational theories as applied to nursing management. The essence of nursing and quality assurance. Statutory and ethical basis of nursing in SA. Methods and techniques of management as applied to nursing management, especially human resource management. Planning and commissioning of health care facilities.

Practicals: Task assignments in management of health services

Assessment: 2 two-hour papers per module

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.
Philosophy of Nursing
NURS701 H1 H2  
Prerequisite Requirement: NONE  
Corequisite: NONE  
Aim: To introduce students to the philosophy of the profession and the basics of the academic discipline.  
Content: History, philosophy and theory of nursing, with special emphasis on the 19th and 20th centuries.  
Practicals: NONE  
Assessment: 1 three-hour paper.  
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Research Project
NURS703 HC  
Prerequisite Requirement: NURS708  
Corequisite: See Prerequisite  
Aim: To develop beginning research skills.  
Content: An approved project in the field of specialisation chosen by the student.  
Practicals: NONE  
Assessment: NONE  
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Nursing Education (First Year)
NURS704 HB  
Prerequisite Requirement: Basic degree in nursing  
Corequisite: NONE  
Aim: To acquire knowledge and skills pertinent to teaching nurses and administration of a nursing college  
Content: Administration of non-nursing support services. Philosophy and principles of nursing education. The development of the learner in nursing, and modern theories of cognition. Curriculum development. Teaching theories, methods and techniques. Classroom and clinical evaluation  
Practicals: 8 hours clinical laboratory, 10 hours college administration  
Assessment: One 3-hour paper  
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Specialised Nursing
NURS707 HC  
Prerequisite Requirement: NONE  
Corequisite: NONE  
Aim: To allow students to study areas of specialisation in which no specific modules are available.  
Content: The student can choose a specialisation area in nursing in consultation with the Head of the School.  
Practicals: Placement in the specialisation area.  
Assessment: 2 seminars and 2 papers, 1 examination paper. One course may be selected from post-graduate courses offered in other schools in the faculty, with the permission of the relevant Head of School.  
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Nursing Research
NURS708 H2  
Prerequisite Requirement: NONE  
Corequisite: NONE  
Aim: To prepare nurses to do research in the field.
### Content
Principles and methods of social and nursing research, with special emphasis on recent trends. This self-directed, problem-based course in nursing research aims to facilitate learners understanding of research, nursing research and the research process through conducting a research study. It further aims to foster an understanding of the evidence based practice and research utilization.

**Practicals:** NONE  
**Assessment:** 1 three-hour paper, 2 Assignments  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

#### Nursing Education (Second Year)
NURS709 H2  
(48L-12T-24P-16S-147H-20R-0F-48G-5A-0W-32C)  
**Prerequisite Requirement:** Basic degree in Nursing  
**Corequisite:** NONE  
**Aim:** To introduce students to the process of conducting health related research  
**Content:** The research process in nursing. Data collection methods and instruments. Research design and sampling. Data analysis and description. Writing research reports. Evaluation research and quality control.  
**Practicals:** 10 hours Practice teaching  
**Assessment:** One 3-hour paper  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

#### Nursing Management (First Year)
NURS710 HY  
(0L-26T-0P-0S-108H-40R-104F-42G-0A-30W-32C)  
**Prerequisite Requirement:** Registration as a nurse  
**Corequisite:** NONE  
**Aim:** To prepare first line nurse managers.  
**Content:** The health service of South Africa and its management. Major organisational theories as applied to nursing management. The essence of nursing and quality assurance. Statutory and ethical basis of nursing in SA. Methods and techniques of management as applied to nursing management, especially human resource management. Planning and commissioning of health care facilities.  
**Practicals:** Task assignments in management of health services  
**Assessment:** 2 two-hour papers per module.  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

#### Psychiatric Nursing
NURS712 H1  
(48L-12T-24P-16S-67H-20R-80F-48G-5A-0W-32C)  
**Prerequisite Requirement:** NONE  
**Corequisite:** NONE  
**Aim:** To equip the nurse with basic mental health nursing competence.  
**Content:** Psychiatric diseases and the nursing care of patients with these conditions, including intellectual handicap. Comprehensive psychiatric service: needs assessment, planning and evaluation.  
**Practicals:** Assignments in community and primary health care settings.  
**Assessment:** One three-hour paper.  
**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

#### Community Health Nursing
NURS720 HY  
(104L-0T-26P-0S-56H-0R-97F-37G-0A-30W-32C)  
**Prerequisite Requirement:** NONE  
**Corequisite:** NONE  
**Aim:** To equip the nurse with basic competence in aggregate care.
**Content:** Environmental health care, Infectious diseases, Health care systems and primary health care, Epidemiology, Community assessment and health care planning.

**Practicals:** Assignments in community and primary health care settings.

**Assessment:** One three-hour paper.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Advanced Midwifery Skills**

NURS801 H2

Prerequisite Requirement: Midwifery

Corequisite: NONE

Aim: To prepare midwives who can render appropriate care in the absence of an obstetrician to ensure safety of mother and baby.

Content: This course deals with specialist skills involved in the management of high-risk pregnancy, labour, postpartum and neonatal clients. It also covers transport of such clients and support skills, and deals with maternal health in general and with factors that impact maternal health. Course to run in an even year.

Practicals: The comprehensive care of high risk clients of different categories in a midwifery setting.

Assessment: One three-hour paper, one practical examination in November.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Applied Critical Care Nursing**

NURS802 H1 H2

Corequisite: NURS815

Aim: To prepare clinical nurse specialists in critical care nursing. Evaluation: One 3-hour paper and one project.

Content: In this course the theoretical framework for critical care is applied to clients across all of life and with problems in all physiological systems. Course to run in an odd year.

Practicals: This includes the comprehensive nursing care of at least 12 clients in critical care settings with problems across all physiological systems e.g. neurosurgery, neurology, pulmonology, general surgery including relevant paediatrics.

Assessment: One three-hour paper, one practical examination.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Advanced Psychiatric Skills**

NURS803 H1

Prerequisite Requirement: None

Corequisite: NONE

Aim: To equip the nurse with advanced assessment and therapeutic competencies.

Content: Family dynamics and family therapy models and theories. Group dynamics and group therapy approaches. Individual counseling models and techniques. The use of family therapy, group therapy and individual counseling in the prevention and treatment of psychiatric illness.

Practicals: This includes either the treatment or the management and rehabilitation of at least 6 psychiatric patients of different categories. Course to run in an even year.

Assessment: 1 three-hour paper, 1 practical exam at end of the second semester.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Child and Adolescent Health**

NURS804 H2

Prerequisite Requirement: Midwifery

Corequisite: NONE

Aim: To prepare a clinician who is able to assess, diagnose and manage child and adolescent problems.
Content: This course follows the physical and psychological development of children from six weeks to eighteen years of age. A study is made of common physical and psychological ailments that the clinical specialist will encounter in practice, the focus being on the development of skills to ensure diagnosis, management, referral and rehabilitation. At all times the focus will be on holistic care. The course also looks at trends in child and adolescent health Africa, as well as the rest of the world. In doing so, factors or issues that impinge on health of children and adolescents will be studied.

Practicals: Paediatric units and relevant primary health care clinics
Assessment: One 3-hour paper and one clinical examination.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Commun and Problem-based Education
NURS805 HV
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To prepare educators to develop and implement CBE and PBL.
Content: The theoretical basis for Community-Based and Problem-Based education for healthcare professionals is explored, and the practical implementation of such programmes analysed.
Practicals: Observation of both types of teaching/learning.
Assessment: One three-hour paper and two projects.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Community Health Nursing
NURS806 H1 H2
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To introduce the nurse to the theoretical and practical outline of the field.
Content: This course explores the theoretical basis of primary health care and community health care, and the context of such health care. Aggregate health programme management and participative research is dealt with and health policy and legislation addressed. Course to run in an even year.
Practicals: This includes assessment planning and implementation of different health related aspects in CHN settings.
Assessment: Two three-hour papers. one practical examination
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Comparative Health Systems
NURS807 H1
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To analyse health systems (structures and processes) by comparing policies and practices in different countries.
Content: Comparison of health care systems, development of policies internationally and nationally. Issues in international health, eg PHC, health promotion.
Practicals: None
Assessment: 2 projects, 1 three-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Evaluation of Health Care Systems
NURS808 H1 H2
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To prepare health service managers in all aspects of evaluation: programmes, services, action plans, policies and staff. Models of evaluation, the use of evaluation in management, quality assurance.
Content: NONE
Practicals: Four practical projects on different aspects of evaluation.
Assessment: 4 projects, 1 three-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Current Issues in Psychiatric Care
NURS809 H1 (24L-6T-12P-8S-38H-20R-24F-24G-4A-13W-16C)
Prerequisite Requirement: NURS833 and NURS835
Corequisite: NONE
Aim: To provide an opportunity for students to engage in scholarly debate facilitated by the exploration of the wider context of psychiatric care in South Africa (and areas of Sub Sahara Africa) and its place in the health service while paying specific attention to current issues and developments in psychiatric nursing and mental health epidemiology.
Content: Contemporary and critical issues identified and explored through a public health framework, the framework of the SA health care system. How an issue is defined is related to, among other things, the health development needs of the community and country, the status of the health care system and its policy, human resources, and organisational, technological and information systems capacities to respond to its political and moral mandate.
Practicals: None
Assessment: Seminar presentation and participation and One three-hour paper..
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Education Administration
NURS811 H2 (24L-6T-0P-8S-62H-20R-12F-24G-4A-14W-16C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To prepare educators in the health professions for 1st level management in educational institutions such as nursing colleges & university nursing departments.
Content: Models of academic governance, theories of administration, organisational climate, Organisational culture, motivation, leadership, organisational change and organisational
Practicals: Conflict (with specific reference to academic institutions.
Assessment: 1 test, 1 assignment, 1 four-hour paper
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Epidemiology
NURS813 H1 (13L-0T-12P-14S-28H-20R-50F-19G-4A-13W-16C)
Prerequisite Requirement: NURS806
Corequisite: See Prerequisite.
Aim: To equip the nurse with advanced epidemiological research skills.
Content: Major epidemiological concepts; Epidemiological and biostatistical methods; Sources, nature and computation of epidemiological data; assess epidemiological techniques in own are of study; Conduct an epidemiological study in own area of interest; Develop ability to write scientific study protocol. Course to run in an odd year
Practicals: Epidemiological surveys and analyses
Assessment: One three-hour paper
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Psychiatric Programme Management
NURS814 H1 H2 (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)
Prerequisite Requirement: NURS833 and NURS835
Corequisite: NONE
Aim: To enable the student to master the process of programme management.
Content: This course deals with theoretically based planning, implementation and evaluation of programmes for individuals or groups with psychiatric problems.

Practicals: This includes the planning and implementation of an aggregate plan and 6 individual plans. Course to run in an even year

Assessment: One three-hour paper. One practical examination

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Essentials of Critical Care Nursing
NURS815 H1 H2 (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)

Prerequisite Requirement: General nurse, working in ICU, ICU experience

Corequisite: NONE

Aim: To prepare clinical nurse specialists in critical care nursing

Content: This course deals with the conceptual framework for critical care and trauma nursing and the core concepts dealt with in this field. It explores the context within which this care given. The critical nursing care of clients with problems in two systems across all life stages. Course to run in an odd year.

Practicals: This includes the Comprehensive nursing care of at least 6 clients in critical care settings, with cardiac and respiratory problems e.g. cardiothoracic, pulmonology, anaesthetics.

Assessment: One 3-hour paper, 1 practical exam

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Qualitative Research
NURS816 H1 H2 (24L-6T-0P-8S-74H-20R-0F-24G-4A-26W-16C)

Prerequisite Requirement: NONE

Corequisite: NONE

Aim: To guide students into a deeper understanding of qualitative research.

Content: This is a mixed mode module, which relies heavily on materials studied by the student. It is a self-directed as well as computer supported learning. It leads the student through the process of qualitative research, addressing different types of qualitative research sampling, data collection and analysis, and report writing. It also deals with philosophical underpinnings and ethical issues. The active participation on the learning@ukzn.ac.za is essential.

Practicals: NONE

Assessment: Ten units to be completed and handed in, as well as one project.

DP Requirement: A 75% participation mark on the e-learning site used for learning in this module

Family Therapy
NURS817 H1 (27L-0T-12P-27S-28H-20R-30F-12G-4A-13W-16C)

Prerequisite Requirement: NONE

Corequisite: NONE

Aim: To equip nurses with beginning competency in assessing families and family counselling

Content: Family dynamics, applied to different nursing areas. Different approaches to family therapy, with the emphasis on practice of one approach.

Practicals: Family assessments and counselling sessions.

Assessment: 2 projects, 1 three-hour paper.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

HIV/AIDS Prevention and Management
NURS818 H1 (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: To introduce HIV/ AIDS prevention and management to students
Content: Deals with the HI virus, the pathophysiology, the method of spread as well as prevention efforts. Also covers issues around testing for HIV, classification and management of people with different stages of HIV/AIDS. Legal and psychosocial issues are also explored.

Practicals: At least three days or 24 hours of practica in a health care setting working with people living with HIV/AIDS. The setting should be chosen in order to supplement the experience the student already has. During this placement students are expected to complete a case study.

Assessment: Assignments for 30% and tests for 5%. Together this is 35% of the final mark. One written examination which counts 65% completes the assessment.

DP Requirement: Candidates must attend at least 75% of all classes, save for those that they have been officially excused.

Fundamentals of Education
NURS819 H1
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To equip educators in the health professions with knowledge and skills pertinent to creating and maintaining a learning-centred environment in the classroom and clinical teaching/learning settings.

Content: Learning theories: behavioural, cognitive, social and transformative learning theories, adult development and its implications for teaching and learning, motivation and self-regulation in learning, managing diversity in the classroom, co-operative learning.

Practicals: NONE
Assessment: 1 test, 1 assignment, 1 four-hour paper

Advanced Community Health Promotion
NURS820 H1 H2
Prerequisite Modules: Preventive and Promotive Health (NURS230HY) or equivalent
Corequisite: None
Aim: The module aims to equip the students with practical skills in planning, implementing and evaluating effective and appropriate evidence-based health promotion interventions and programmes. The aim of the module is to provide an insight into the concepts, history, theories and applications of Health Promotion strategies.

Content: This module explores the following content: Explore and analyse theories and principles that underlie health promotion as a mechanisms for promoting health through social interventions. Aggregate health promotion programme management, using participatory methods that engage community members. Analyze and utilize appropriate health promotion communication strategies in coordination with other health care providers in the health care Initiate, and evaluate health promotion programmes and strategies which are appropriate for individual clients and groups in the community. Design health promotion strategies and interventions for specific populations of clients through review of recent literature, class discussion, and project assessments, Critically analyse relevant legislation that impact on health promotion interventions

Practicals: The practical component includes community health needs assessment, health promotion project planning and implementation. The project is implemented in in a targeted community setting to be in line with the identified health needs, as identified the community members and the learners. The practical component includes a health promotion project planning and implementation. The learners have to spend a minimum of 12 hours in the community working on their community projects. A total of 40 hours is allocated for the practical including travelling, community entry, community meeting and preparation for project implementation.

Assessment: Formative assessment will include two (2) assignments and a test = 50% of the final mark Summative assessment which includes one (1) three (3) hour paper and a health promotion project implementation = 50% Class test 25% 2 assignments 25% A health promotion community project 25% 1 three-hour theory exam paper 25%

DP Requirement: Candidates must attend at least 75% of all classes, and completion of all practical requirements in the community setting.
Primary Care
NURS821 H1 H2  (24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)
Prerequisite Requirement: NURS806
Corequisite: NONE
Aim: To prepare the nurse with assessment, diagnostic and treatment skills for practicing in a PHC setting.
Content: This course runs with comprehensive management of minor and common medical and surgical conditions across the lifespan in PHC settings. Family planning and STD management will also be covered. Course to run in an even year
Practicals: This includes assessment, diagnosis and treatment of at different categories.
Assessment: one three-hour. One practical examination
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Advanced Practice Nurse Role
NURS822 H2  (24L-6T-0P-8S-74H-20R-0F-24G-4A-13W-16C)
Prerequisite Requirement: NONE
Corequisite: NONE
Aim: To explore the factors impacting on the role of an advance nurse practitioner in the S A context, to enable specialist nurses to structure and fulfil their roles satisfactorily
Content: The module deals with specific role aspects such as consultation, administration, and education. It also deals with the historical, health service, socio-economic and societal context of such roles in this country.
Practicals: Individual projects.
Assessment: Individual projects and one three-hour paper.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Progressive Educa for Health Professionals 1
NURS823 H1  (36L-9T-18P-12S-104H-20R-0F-36G-5A-14W-24C)
Prerequisite Requirement: 4 year Bachelor of Nursing Degree
Corequisite: NURS819
Aim: To prepare health professionals’ educators who are able to (a) appreciate the importance of educational philosophy in health professionals’ teacher education programmes (b) critically analyse various conceptions concerning education, (c) critically analyse value orientations influencing curriculum decisions with specific reference to implications for designing curriculum in the health professions.
Content: Philosophical Foundations of Education: conservative views of education, progressive education, romantic and radical visions of education, health professionals education in the modern era, health professionals education in the post-modern era, content and process education, outcomes-based and product-based education in the health professions.
Practicals: NONE
Assessment: 1 test, 2 assignments, 1 personal and academic development portfolio, 1 four-hour exam.
DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Progressive Educ for Health Professionals 2
NURS824 H2  (36L-9T-18P-12S-104H-20R-0F-36G-5A-14W-24C)
Prerequisite Requirement: Progressive Education for Health Professionals 1
Corequisite: NONE
Aim: To prepare educators in the health professions who are able to (a) design, implement, and evaluate case and/or problem based and community-based learning programmes, (b) ensure relevance in designing educational programmes, while taking into account the recommendations of international organizations such as the WHO and the ICN and (c) understand the significance professional regulation and quality assurance in professional education.
Content: International organizations and the education of health professionals, national policy and the education of health professionals, experiential education (theoretical underpinnings and selected approaches CBE, PBL, and service
learning: reflective teaching practice, assessment and evaluation in professional education, accreditation and quality assurance in professional education.

**Practicals:** Facilitating learning in (a) PBL groups and case based learning groups (b) community settings and (c) the self-study clinical skills laboratory.

**Assessment:** Reflective Teaching Practice Record, 1 assignment, 1 project, 1 four-hour examination.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Trauma Nursing and Life Support**

NURS825 H1

(24L-6T-12P-8S-22H-20R-40F-24G-4A-15W-16C)

**Prerequisite Requirement:** Must be a registered nurse

**Corequisite:** Advanced Cardiac Life Support or Advanced Paediatric Life Support

**Aim:** To prepare a trauma nurse specialist

**Content:** This course deals with the anatomy, physiology and pathophysiology underlying trauma and emergency interventions. Emergency assessment and triage. Life support in cases of emergency care, as well as, during transport of critically ill persons will be studied, including the scientific principles underlying the problems and interventions.

**Practicals:** Emergency nursing care of the client in the pre-hospital and hospital setting.

**Assessment:** 1 three-hour paper. One practical examination.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Women's Health**

NURS827 H1

(24L-6T-12P-8S-22H-20R-40F-24G-4A-13W-16C)

**Prerequisite Requirement:** Midwifery

**Corequisite:** NONE

**Aim:** To prepare a clinician who can be an activist for women's issues

**Content:** This course deals with sexuality, male/female roles and women's issues which impinge on health. The empowerment of women is studied and empowerment programmes planned and implemented.

**Practicals:** The planning and implementation of an empowerment programme for women. Course to run in an even year.

**Assessment:** One three-hour paper and a clinical examination.

**DP Requirement:** Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

**Health Service Management**

NURS829 H1 H2

(0L-0T-76S-24H-20R-12F-24G-4A-13W-16C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** To prepare the learner to become a health service leader, manager, educator and an advocate for patients, quality health services and the contribution/role of Health Services Managers to the health agenda and Research within the health agenda.

**Content:** Advanced Management ,Finance management for Health Services Managers ,Staff Retention,Leadership in nursing and midwifery,Public health policy formulation

**Assessment:** Formative (50%) • Individual Assignment • Group Project Summative (50%) • Examination (3hour paper)

**DP Requirement:** 75% class attendance.Submission of all required assignment.

**Nursing Res & Nursing Res Methods**

NURS831 H2

(24L-6T-0P-8S-74H-20R-0F-24G-4A-13W-16C)

**Prerequisite Requirement:** NONE

**Corequisite:** NONE

**Aim:** To enable learners develop research skills that are appropriate to nursing and nursing related field.
**Health Sciences**

**Content**: This module deals with identifying and describing researches that are specific to nursing. It looks at theories and theory development in nursing. Identifies current issues in nursing research, discusses and describes methodologies appropriate for nursing researches grouped according to reasons for conducting nursing research. It deals with aspects of proposal writing, writing for scholarly journals and managing resources for nursing research. This module requires that the learner attends all graduate research seminars in the School, and the candidate must organise and present at least one seminar during the semester.

**Practicals**: NONE

**Assessment**: One presented seminar, 2 assignments and one 3-hour paper

**DP Requirement**: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**HR Management for Nurse Managers**

**NURS832 H1**

**Prerequisite Requirement**: None

**Corequisite**: None

**Aim**: To equip Nurse Managers/ Health Service Administrators to manage the human resources employed by a Nursing Service in Developing Countries

**Content**: International and Historical context of Human Resources Management Human Resources Management in the South African Context • Human Resources Data – collection; storage; analysis; interpretation and planning change with analysed data and how decentralization affects its adequacy and availability Planning – the Human Resources requirements for a Nursing Service; including planned annual leave, sick leave, maternity leave; i.e. statutory absence from work; Budgets including – cost to company - remuneration, incentives, accumulated leave, skills levy, medical aid, pension fund contribution; Management structures and jobs etc. Policies – Policy analysis, formulation/change, implementation, monitoring and evaluation for quality service delivery Performance Management – productivity measurement; Managing for performance; Motivational Management Training and Education – the role of research in human resources Management Transfer of HR functions and staff The impact of professional associations, unions, and registration bodies on HR

**Practicals**: Portfolio of evidence of Human Resources activities which the learner has been personally involved in during clinical placement in a selected clinical setting. The learners are required to spend 40 Hours working in a clinical setting working on their portfolio development

**Assessment**: Formative 50% • Assignment Summative 50% • Portfolio of evidence 40% • Written examination 20%

**DP Requirement**: Candidate must attend at least 75% of all classes and submit the required assignments/projects for assessment

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**Introduction to Cognitive Behaviour Theraph**

**NURS833 H2**

**Prerequisite Requirement**: None

**Aim**: To equip psychiatric nurse specialists with counselling skills using the CBT approach.

**Content**: This module deals with the basic theory of cognitive and behaviour therapy, and deals with its application to therapy for clients with anxiety and mood disorders. It teaches assessment for therapy, initiating therapy, maintenance and termination. The ethical aspects of therapy are also covered.

**Practicals**: This includes witnessing therapy, and doing supervised therapy.

**Assessment**: One three-hour paper and one practical examination.

**DP Requirement**: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

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**Psychosocial rehabilitation**

**NURS835 H1**

**Prerequisite Requirement**: NONE

**Corequisite**: NONE

**Aim**: To equip psychiatric nurse specialists with the knowledge and skills to facilitate the rehabilitation of people with serious and sustained mental illness.
Content: This module deals with theories of psychosocial rehabilitation and all four aspects of this process (housing, education, socialization and work). Issues such as deinstitutionalization are also dealt with, and the process of psychosocial rehabilitation counselling is taught.

Practicals: This includes witnessing PSR counselling, and doing supervised counselling.

Assessment: One three-hour paper and one practical examination.

DP Requirement: Candidates must attend at least 75% of all classes, the minimum practical requirements in the clinical setting.

Evidence Based Nursing Practice
NURS837 H1 H2

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: The aim of this module is to equip students with the foundations of Evidence Based Nursing practice and to develop the students understanding of the principles and process of implementing evidence based nursing practice in a variety of clinical nursing settings.

Content: The content of this module covers a comprehensive overview of what Evidence Based Nursing is, its importance in the further development of the profession of Nursing and the steps and guiding principles that can be used to effectively apply nursing research into nursing practice. The content areas that are covered in the module includes: An introduction to the concept of Evidence Based Nursing and its importance to the Nursing profession Steps of Evidence Based Nursing Process Different types of evidence available and their levels of importance Critical appraisal of Nursing Research Evidence and the grading of evidence Effective techniques to search and retrieve appropriate and relevant literature (evidence) Application and evaluation of research to clinical nursing practice Accountability and Ethics underpinning and linked with Evidence Based Nursing Practice Challenges in implementing Evidence Based Nursing practice and ways to overcome this

Practicals: None

Assessment: A series of written tasks on the process of Evidence Based Nursing and the inherent principles will be used as a major component of the Formative Assessment. Formative Assessment: Assignment 1: (Reflective Paper) 10% Write a reflective paper on the application of Evidence Based Nursing (EBN) practice in a given field of nursing practice. Underpinning this paper, the student is expected to show reflection on a clinical practice towards formulation of a research question to implement EBN practice. The paper should also draw on the importance, purpose, current challenges, limitations and biases relating to EBN from a reflective standpoint of the student. Assignment 2 (Data Search) 20% In this assignment the student is expected to present an appropriate refined researchable practice question, engage with relevant data sources for relevant appropriate literature, use of the PICO strategy and appraisal of the literature. This assignment is in the form of a seminar presentation. The student will demonstrate communication skills through presentation of the search strategy to other learners and also demonstrate an understanding of the process through engagement with critique and questions from peers. Proposed Plan and Seminar Presentation (Application and Evaluation of Evidence) 30 % In this assignment, the student will discuss the nature of evidence, the interface of the clients personal preference and context when considering the appraised literature. The student will also present an action plan of how the appraised and graded evidence on the selected nursing practice topic will be applied practically. The seminar will also discuss the inherent responsibilities of a nurse researcher in terms of accountability and ethics underpinning EBN practice. This seminar will be presented to both peers and lectures within the discipline of Nursing. Summative Assessment 3 hour examination (40%) This examination will draw on knowledge of all units covered in the module

DP Requirement: Candidates must attend at least 75% of all classes

The Roles & Respons. of a Nurse Researcher
NURS838 H1 H2

Prerequisite Requirement: Four Year Bachelor of Nursing or Honors in Nursing qualification permits entry for the module. There are no particular modules that are needed as a pre-requisite. However, learners will be required to complete a research compliance certificate within the first week of starting the module.

Corequisite: Nursing Research and Nursing Research Methods

Aim: The aim of this module is to allow students to explore issues related to the roles and responsibilities of being a nurse researcher. Some of these roles and responsibilities will allow the student as a nurses researcher to engage with
ethics and nursing research; engaging with the legal context of dealing with human subjects; and medic-legal conditions inherent in health science research (eg. Experimental and randomized control trials), scientific freedom and social responsibility, inter-professional collaboration in research teams; how to engage with communities and participants in terms of entry and exit for research; interdisciplinary research, developing a research group, peer review and ensuring rigor, development of a research program and research career, accessing research funding, and dissemination of research findings. Further to this, the module will introduce the student on the role of managing a research project in terms of financial management; data management (including management of fieldworkers); report writing of research findings.

**Content:** The content of this module covers a wide range of topics that will prepare a nurse researcher to function as a research scientist in the field of health profession. The content areas that are covered in the module includes: Ethical frameworks and legal, principles, and codes that form the foundations of scientific integrity. Critical Evaluation of a Scientific Research proposal. Collaboration in interdisciplinary, Multidisciplinary and Transdisciplinary Research groups Human subjects Protection and vulnerable populations. Responsibilities of Nurse scientists in an academic or research environment. Scientific integrity and scientific freedom. Funding opportunities and building a program of research. Accessing and interacting within the research community. Project Management – managing project funding, data management, technical and supplies requirements for research projects.

**Practicals:** Learners are expected to attend one ethic committee meeting and observe the ethical review process.

**Assessment:** The will be a series of tasks that will contribute to assessment. Assessment will include two (2) assignments and a research article and class presentations. •2 assignments 30% •1 Journal article 25% •Proposal critique in a research meeting 20% •Participation in class presentations 10% •Presentation on career trajectories 5% Formative Assessment: Assignment 1: (Critique of a research proposal) In this assignment learners will be given a research proposal to critique and write a detailed report on their comments. The assignment aims to equip learners with proposal critiquing skills and to be able to give feedback during proposal presentation. Learners will also be expected to attend at least one proposal presentation in the Nursing Discipline and participate in a proposal presentation session by giving constructive feedback. Assignment 2 (Research Project Plan) Students will be assigned to mock research studies. The overall aim and objectives of the research study will be provided. As a nurses researcher, the student is expected to complete a research project plan for the particular study. The plan should attend to the following areas: Summary of the data management plan, including research tools and related threats to validity and reliability that will be considered. Management of Human Subjects; as a nurse researcher, discuss the manner in which human subjects will be recruited for this study. Discuss the ethical issues inherent in the recruitment of participants and your role as a nurse researcher in minimising the threat Data Analysis Plan Operational or Logistic Plan: this should have discussion points on areas around resource management; financial management of the core and operational budget; management of technical team (eg fieldworkers, participant incentive) Summary of reporting plan for the intended research project and the publication plan.

**DP Requirement:** Candidates must attend at least 75% of all classes

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**Theoretical Basis for Gerontological Nursing**
NURS841 H1 (OL-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)

**Prerequisite Requirement:** None
**Prerequisite Modules:** None
**Corequisite:** None

**Aim:** This module will provide learners with an in-depth knowledge of the physiological psychological, sociological and anthropological theories underlying the process of aging. The content of these theories will form the basis for both assessment and intervention in gerontological nursing.

**Content:** Social theories of aging; Psychological development in later life; Ethno-cultural aspects of aging; Formal and informal caring for elders; Elder abuse; Cultural views of death

**DP Requirement:** 40% continuous assessment, the minimum practical requirements in the clinical setting.

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**The Care of Aging Clients**
NURS842 H2 (OL-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)

**Prerequisite Requirement:** None
**Prerequisite Modules:** None
**Corequisite:** None
Syllabi

Aim: This module will provide learners the evidence-base for prevention, promotion, care and rehabilitation for elderly clients. It focuses mainly on long term community-based care, as opposed to acute, in-hospital care.

Content: Health promotion and illness prevention in the elderly. Changes in the following systems during aging, implications for health and disease: Cardiovascular system; Endocrine system; Immune system; Musculoskeletal system; Neurological system; Renal system. Management of chronic illness, with specific reference to common chronic illness of the elderly Rehabilitation process and techniques

DP Requirement: 40% continuous assessment, the minimum practical requirements in the clinical setting.

Assessment of the Geriatric Client
NURS843 H1
(OL-0T-0P-160H-0R-0F-0G-0A-0W-16C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: This module will provide learners with an in-depth knowledge of the comprehensive assessment of older adults and older patients in terms of both their physical and psychosocial condition in order to plan effective preventive/promotive, curative and rehabilitative care. It will include the theoretical basis for the assessment as well as clinical mastery of techniques.

Content: Special considerations with regard to assessment in the elderly; Domains of assessment in the elderly-physical, psychosocial; Late life transitions; Elder care and elder abuse

DP Requirement: 40% continuous assessment, the minimum practical requirements in the clinical setting.

Nursing Research Project
NURS850 HY
(OL-16T-0P-16S-768H-0R-0F-0G-0A-0W-80C)
Corequisite: NURS831
Aim: The module aims to facilitate students in independently completing a research project under the guidance of a research supervisor on a relevant, current and contextual nursing topic; and produce a research report in the form of a dissertation.

Assessment: Assessment will be conducted in such a way as to adhere to adult learning principles. This means that content and learning demonstrate relevance, problem solving, learning by doing, a strong element of self-direction and ownership, are based on the student's experience, and have clear goals. This module will have a summative assessment using project reports, and a final submission as a scientific journal article

DP Requirement: A scientifically acceptable and ethically approved research proposal.

Nursing Research Project
NURS860 HY
(OL-0T-80P-150S-400H-0R-200F-0G-130A-26W-96C)
Prerequisite Requirement: None
Corequisite: Nursing Research and Nursing Research Methods (NURS831)
Aim: The module aims to facilitate independent completion of a research project under the guidance of a research supervisor on a relevant, current and contextual nursing topic; and production of a research report in the form of a dissertation.

Content: Theoretical knowledge of research including (i) the scientific selection of an appropriate research topic, (ii) conducting a relevant literature review aligned to the research paradigm of choice; (iii) data collection (iv) data analysis and (v) write up of results and dissemination of research findings

Assessment: Research Project 100%

DP Requirement: A scientifically acceptable research proposal, which must be approved by the relevant ethics committee of UKZN.

Nursing Research Project Subsequent Yr
NURS861 HY
(OL-0T-80P-150S-400H-0R-200F-0G-130A-26W-96C)
Prerequisite Requirement: None
Corequisite: Nursing Research and Nursing Research Methods (NURS831)
**Aim:** The module aims to facilitate independent completion of a research project under the guidance of a research supervisor on a relevant, current and contextual nursing topic; and production of a research report in the form of a dissertation.

**Content:** Theoretical knowledge of research including (i) the scientific selection of an appropriate research topic, (ii) conducting a relevant literature review aligned to the research paradigm of choice; (iii) data collection (iv) data analysis and (v) write up of results and dissemination of research findings.

**Assessment:** Research Project 100%

**DP Requirement:** A scientifically acceptable research proposal, which must be approved by the relevant ethics committee of UKZN.

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**Obstetrics and Gynaecology**

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**Obstetrics & Gynaec Clinical & Prof Pract 1**

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline; To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Embryology, anatomy, genetics, physiology, pathology, epidemiology, pharmacology and principles of therapeutics, and laboratory investigations particularly as these subjects apply to Obstetrics and Gynaecology.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjected to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the College of Obstetricians and Gynaecologists in the Colleges of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three written papers as follows; Part 1A – One 3-hour paper on basic sciences, essay and short questions. Part 1B, Paper 1- Applied basic sciences: essay questions (3 hours). Paper 2 – Applied basic sciences: short questions (2 hours).

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory progress as demonstrated by portfolio.

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**Obstetrics & Gynaec Clinical & Prof Pract 2**

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

**Content:** Diagnosis and management of a wide range of Obstetrics and Gynaecology conditions – both common and uncommon; Health promotion and illness prevention in women.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written papers; OSCE; Obstetrics OSPE; Gynaecology OSPE

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio.
Occupational Health

Occupa. & Environmental Hlth & Epidemiology
OCEH600 H1
(20L-7T-5P-0S-50H-30R-0F-5G-43A-15W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to develop an understanding and practical application among participants of Global and South African occupational and environmental health, international codes of practice and national legislation and basic epidemiological concepts.
Content: Occupational health - history and structure of OH in South Africa, comparison with other countries, international agencies, codes of practice, principles of occupational health and hygiene, resources in OH, occupational health legislation. Environment health - health education and promotion, air, water, soil pollution, workplace emissions and community health, food hygiene, disposal of hazardous waste, environmental health legislation. Epidemiology-Definition of epidemiology, Descriptive statistics, Measures of disease occurrence, Descriptive and basic analytic epidemiology
Assessment: •Pre-module reading =10% •Ethics certification submission =2.5% •Assignment =25% •In-block group assignment =10% •Evaluation =2.5% •Final Examination =50% 1 Pre-module recording 4x Submissions 2x Assignments 1x Submission Ethics Certification
DP Requirement: None

OHSM and Psychosocial Issues
OCEH601 H1
(20L-7T-5P-0S-50H-30R-0F-5G-43A-15W-16C)
Prerequisite Requirement: None
Aim: The aim of this module is to provide students with a basic understanding of the principles relating to the organisation of occupational health services, the different levels of prevention and cure provided, and how to evaluate these services for service provision and utilisation. In addition the module provides students with the ability to understand basic concepts of sociology and psychosociology as they relate to health in the industrial and environmental setting
Content: The content of this module will focus on the delivery of occupational health services; the policy framework, financing and ethics of health services delivery. It will also cover aspects of shiftwork, employee assistance programmes and work stress
Assessment: •Assignment =25% •In-block group assignment =20% •Evaluation =5% •Final Examination =50% 2x Assignment 1 in- Block Group task 1 Evaluation
DP Requirement: None

Case Studies - Occupational Health
OCEH602 H2
(0L-8T-0P-0S-106H-0R-0F-0G-46A-15W-16C)
Prerequisite Requirement: None
Aim: To teach students practical application of theoretical frameworks in occupational and environmental health management
Content: Occupational Toxicology, Occupational Epidemiology, Psychosocial Issues, Occupational Hygiene, Environmental Health, Occupational Legislation, Occupational Health Services Management, Occupational Diseases and Disability
Assessment: Submission of 8 completed case studies. Attainment of a 50% minimum in each case study. Each of the 8 case studies will contribute 12.5% to the total mark for the module •Case study 1 =12.5% •Case study 2 =12.5% •Case study 3 =12.5% •Case study 4 =12.5% •Case study 5 =12.5% •Case study 6 =12.5% •Case study 7 =12.5% •Case study 8 =12 8x submission of Case studies
DP Requirement: None Submission of 8 completed case studies. Attainment of a 50% minimum in each case study. Each of the 8 case studies will contribute 12.5% to the total mark for the module

Research Project Occupational Health
OCEH603 H1 H2
(0L-6T-0P-0S-114H-0R-0F-0G-200A-15W-32C)
Prerequisite Requirement: Core modules of the Postgraduate Diploma in Occupational Health.
Aim: The aim of this module is to introduce students to research methodology and report writing in occupational health.
Content: In this module students follow 4 steps which result in the student describing a worksite, conducting a risk assessment identifying a hazard, conducting a literature review of the hazard, and developing a research protocol to study the hazard.
Assessment: Examination of project report. • Presentation = 5% • Step 1 = 10% • Step 2 = 15% • Step 3 = 25% • Step 4 = 45% 1 Presentation 4x steps
DP Requirement: None

Occupational and Environmental Diseases
OCEH604 H1
Prerequisite Requirement: None
Corequisite: None
Aim: The aim of this module is to provide students with the skill to recognise, diagnose and manage occupational and environmental related diseases on an individual basis, and to make recommendations for the protection of the health of groups of workers or sectors of communities at risk
Content: This modules will provide the student with an in depth exposure to occupational and environmental risks and the associated disease presentation. Students will be exposed to clinical presentation and diagnosis of disease. They will also be taught on the clinical and administrative management of such disease entities.
Practicals: The students go to a factory to conduct a site audit based on a task provided. This takes 5 hours.
Assessment: Assignment = 25% In-block group assignment = 20% Evaluation = 5% Final Examination = 50% 2x Assignment 1 in- Block Group task 1 Evaluation
DP Requirement: None

Recogn. & Evaluation of Occupational Hazards
OCEH605 H1
Prerequisite Requirement: None
Corequisite: None
Aim: This module aims to teach health risk assessment and survey methods as tools for recognising hazards in the work environment and the development of workplace interventions for hazard control.
Content: This module builds on knowledge students obtained on health hazard risk assessment and survey methods, data sources to be used and the interpretation thereof in the Introductory Principles of Hygiene module. Students also learn about planning and performing typical Chemical, Physical Stress and Ergonomic Surveys and interpreting these surveys. Students are taught about the link between these assessments and medical surveillance. In addition students are provided with an understanding of legislative requirements for Occupational Hygiene in South Africa
Practicals: The students go to a factory to conduct a site audit based on a task provided. This takes 5 hours.
Assessment: Assignment = 25% In-block group assignment = 20% Evaluation = 5% Final Examination = 50% 2x Assignment 1 in- Block Group task 1 Evaluation
DP Requirement: None

Introductory Principles of Occ Hygiene
OCEH6H1 M1 M2
Prerequisite Requirement: None
Aim: The aim of this module is to familiarize students with the nature of work place exposures and the procedures for assessment thereof. They will also be trained on risk assessments: the manner of conduction, their benefits and expected outcomes. They will learn to apply hygiene principles to ensure safety in the workplace
Assessment: • Assignment = 25% • In-block group assignment = 20% • Evaluation = 5% • Final Examination = 50% 2x Assignment 1 in- Block Group task 1 Evaluation
DP Requirement: None
Principles of Toxicology
OCEH6O1 M1 M2 (20L-7T-5P-0S-50H-30R-0F-5G-43A-0W-16C)
Prerequisite Requirement: None
Aim: The aim of this module is to introduce students to the basic principles of toxicology and toxicokinetics in occupational and environmental health. This module provides the students with knowledge on toxic occupational exposures, their classification and their adverse health effects in working populations.
Content: This module will provide an overview of the basic principles of toxicology and how to classify toxic chemicals. It will cover the acute and chronic toxic effects of chemicals in humans, dose effect responses, and sensitisation of chemicals. Students will be exposed to biological markers/indicators used for chemical surveillance. They will be exposed to the process of carcinogenesis, mutagenesis and teratogenesis. Legislation relating to Hazardous chemical substances and occupational exposure limits will be taught. Students will learn to develop biological monitoring strategies for chemical exposures.
Assessment: Assignment = 25% • In-block group assignment = 20% • Evaluation = 5% • Final Examination = 50% 2x Assignment 1 in- Block Group task 1 Evaluation
DP Requirement: None

O M C and Professional Practice 2
OCEH8BA H2 (20L-96T-0P-48S-968H-1130F-36G-222A-45W-270C)
Prerequisite Modules: Public Service and Clinical Attachment, Intermediate Epidemiology (PBHL8E1), Health Measurement (Analytical) (PBHL8H1), Health Measurement (Descriptive) (PBHL8J1),
Corequisite: Research Dissertation (OCEH8V1)
Aim: The main aim of this module is to ensure that registrars have acquired the necessary theoretical knowledge in occupational medicine which allows them to practice occupational medicine at a specialist level.
Content: This module consists of the theoretical knowledge of occupational medicine incorporating medical surveillance, Occupational medicine related diseases and injuries and management thereof, occupational medical ethics, legal practice, health risk assessment and industrial relations
Practicals: None
Assessment: Achievement, by the student, of a pass grade for the aggregate mark for the examination. The final mark for the examination will be made up of a weighted average of the marks for each component. The weightings will be as follows: 1. Research dissertation (this is a separate module but contributes to this) 20% 2. Short report 12% 3. Multiple choice paper 12% 4. Short answers paper 12% 5. Essay paper 12% 6. Oral exam 12% 7. Occupational medical skills examination 20%
DP Requirement: None

Research Dissertation OM
OCEH8RP H1H2 (0L-90T-0P-80S-1136H-0R-0F-80G-254A-45W-164C)
Prerequisite Modules: PBHL8J1; PBHL8H1; PBHL8E1; PBHL8X1
Corequisite: None
Aim: The aim of this module is to ensure students are able to practically apply the theoretical knowledge of occupational medicine and epidemiology that they acquire during their training in a specific area of research relating to occupational medicine. They must display an integration of epidemiological principles and concepts with occupational medicine in the conduct of their research.
Content: The content of the research project must be occupational medicine related. This involves a research dissertation.
Practicals: None
Assessment: The research dissertation must be examined by two examiners who are external to the university.
DP Requirement: None

Research Project
OCEH8V1 MC (0L-0T-0P-0S-640H-0R-0F-0G-0A-0W-64C)
Content: Research project and report on an aspect of Occupational & Environmental Medicine
Assessment: Examination of project report.
DP Requirement: None
Research Dissertation Occupational Medicine  
OCEH8V3 HC  
Prerequisite Modules: Health Measurement (Descriptive: PBHL8J1); Health Measurement (Analytical: PBHL8H1); Intermediate Epidemiology (PBHL8E1); Research Methods and Bioethics (PBHL8X1)  
Corequisite: None  
Aim: The aim of this module is to ensure students are able to practically apply the theoretical knowledge of occupational medicine and epidemiology that they acquire during their training in a specific area of research relating to occupational medicine. They must display an integration of epidemiological principles and concepts with occupational medicine in the conduct of their research.  
Content: The content of the research project must be occupational medicine related. This involves a research dissertation  
Practicals: None  
Assessment: The research dissertation must be examined by two examiners who are external to the university.  
DP Requirement: None  

OMC and Professional Practice 1  
OCEH8W1 HC  
Prerequisite Requirement: None  
Corequisite: None  
Aim: The main aim of this module is: To develop competence in the foundation sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist.  
Content: This module consists of clinical practice of occupational medicine incorporating medical surveillance, occupational medicine related diseases and injuries and management thereof, occupational medical ethics, legal practice, health risk assessment and industrial relations.  
Practicals: None  
Assessment: The assessment in this module is the review of the learning portfolio which the student submits at the end of each rotation. The portfolio must reflect a minimum of 24 patient reports, a minimum of 16 workplace risk assessment/audit or programme evaluation reports at the end of this module and a minimum of 24 oral presentations critiquing the literature (90%). This is assessed by two specialists in occupational medicine. In addition students are expected to complete practical and paper based tasks, assignments and assessments relating to formal teaching on occupational medicine, toxicology, occupational health services management, occupational medicine legislation and occupational hygiene (10 %).  
DP Requirement: None  

Occupational Therapy  
Fundamentals 1  
OCTH141 W1  
Prerequisite Requirement: None  
Corequisite: None  
Aim: This module provides an introduction to Occupational Therapy theory. It provides a basic understanding of theoretical concepts fundamental to the OT profession and practice including insight into historical and philosophical development, current global terminology, and orientation to OT practice in different settings. Students are introduced to assessment procedures of the person, organization and population, understanding the concept of engagement in occupation and participation in occupation, ethics and the key concepts that form the theory of occupational science  
Content: The theory of the history, control and philosophical development of the profession, an introduction to ethical principles and human rights principles as applied in OT; the theory of Occupational Science, an introduction to OT procedures and intervention programmes; and an introduction to research and assessment principles.  
Practicals: A practical visit to view OT practice in different settings. This may need to be arranged by students independently. An assignment which includes visiting and interviewing 2 members of the public from differing cultures, communities and backgrounds to gain insight into and analyse their lifestyles.
**Assessment:** FINAL MARK: CAM:EXAM 60:40. Formative: 1 Test (40%), 1 Presentation (group or individual) (30%), 1 Assignment / Task (group or individual) (30%). Summative 1 x 3 hour written paper (100%)

**DP Requirement:** Formative mark of ≥ 40 %

**OT Therapeutic Media 1**

OCTH142 W2 (30L-0T-70P-0S-20H-5R-12F-8G-15A-15W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** This module is an introduction to the therapeutic value of occupation, the value of occupation in the context in daily life and health and to the fundamental skills of planning of occupational interventions. This module aims to introduce students to the ability to practically implement the above mentioned skills in a classroom and clinical environment.

**Content:** Introduction to the kinesiology, ergonomics and anthropometrics, workshop safety concepts. Introduction to theory on supporting health and participation in life through engagement in occupations. The principles and value of teaching methods and planning in the execution of occupational therapy interventions.

**Practicals:** 50 hours in the activity laboratories practising a variety of skills, using a variety of basic tools and materials to manufacture products which may include adapted games and special seats for children with disabilities, which will incorporate the principles learnt in the theory lectures during the execution of all the activities 8 hours preparation for practical, 3 mornings of at least 4 hours (12 hours) at a clinical venue working with clients under the full time supervision of clinical supervisors

**Assessment:** CAM-Based Module (100%) • Tests and/or assignments (40%) • Presentations (30%) • Activity Reports (10%) • Completed (manufactured) Articles (20%)

**DP Requirement:** As per faculty rules.

**OT Therapeutic Media 2**

OCTH242 WY (15L-0T-90P-0S-30H-5R-0F-0G-20A-30W-16C)

**Prerequisite Modules:** All first year modules

**Corequisite:** None

**Aim:** To provide students with knowledge and skill in the use of activity analysis as an assessment tool, the use of activity in intervention with a variety of clients of different ages and levels of function, and the use the various skills in the manufacture of assistive devices

**Content:** Lectures: Theory of activity analysis and its use in assessment of clients with physical and psychosocial and paediatric conditions at different levels of function. Workshop safety when using tools and manufacturing items. The use of ergonomics and anthropometrics principles in tasks analysis and activities as applied to OT practice

**Practicals:** 90 hours in the activity laboratories to practically use tools and materials in the execution of activities of increasing complexity.

**Assessment:** CAM Based Module (100%): Assignment (20%) Articles (30%) OSPTs/OSPEs (50%)

**DP Requirement:** As per faculty rules.

**OT Fundamentals 2**

OCTH243 W1 (60L-10T-5P-4S-30H-25R-0F-18G-8A-8W-16C)

**Prerequisite Modules:** All first year modules

**Corequisite:** None

**Aim:** To develop an in depth knowledge base of theoretical constructs of OT practice and the models used in guiding OT practice. The students are required to gain an introduction to the application of treatment techniques such as group work; human development, basic concepts and principles of professional ethics, and the application of human rights in OT practice in order to equip students with knowledge base, insight and theoretical approaches necessary for client intervention in Occupational Therapy.

**Content:** The conceptual and theoretical frameworks and models that guide OT practice. An introduction, fundamental concepts and general application of Selected Models of Practice in OT such as Model of Creative Participation (du Toit) and Model of Human Development (Kielhofner) and the Kawa Model(Iwama)and Occupational Science. Includes an introduction to human development, basic concepts and principles of ethics, etiquette and human rights in OT practice. The classification and theoretical constructs of group work including group dynamics, process, principles and procedures for the management of groups. The role of group therapy within OT programmes.
Practicals: None
Assessment: FINAL MARK: CAM:EXAM 60:40. Formative: 1 Test (40%), 2 Assignments and/or presentations (group or individual) (60%). Summative: 1 Theory Examination 2 hour written paper (100%)
DP Requirement: Formative mark of ≥ 40 %

Areas of Occupation
OCTH244 W1
Prerequisite Modules: All first year modules
Corequisite: None
Aim: To develop the students’ knowledge and skill regarding the application of various techniques/methods/tests/procedures and/or principles commonly used in OT for the assessment and intervention for different areas of occupation as these occur in different contexts.
Content: Lectures: Introduction to Areas of Occupation, Understanding Activities of daily living (ADL) in terms of age, gender, culture and context as well as being able to assess the impact of disability upon the various ADLs instrumental activities of daily living (IADL), personal management, education, work, play, leisure and social participation. Practicals: at strategic stages of theoretical input students are exposed to laboratory practical situations in which they practice the various applications to ADL that are taught in the class. This is later carried over into the practical implementation phase when they are on fieldwork practicals.
Practicals: At strategic stages of theoretical input students are exposed to laboratory practical situations in which they practice the various applications to areas of occupation that are taught in the class. This is later carried over into the practical implementation phase when they are on fieldwork practicals.
Assessment: FINAL MARK: CAM:EXAM 60:40. Formative: 1 Test (40%) and 2 assignments and/or presentations (60%) (group or individual) Summative: 1 x 3 hour written paper (100%)
DP Requirement: Formative assessment ≥ 40%

OT Psychosocial Theory and Fieldwork 2
OCTH245 W1
Prerequisite Modules: All first year modules
Corequisite: None
Aim: To provide students with the theory, principles and practice of assessment in relation to specific symptomatology as applied to the psychosocial field of OT practice. It provides students with assessment skills that are required in the clinical field when one has to treat individuals or groups of patients. The practical component of the module gives students an opportunity to assess patients in hospital/institutional settings and thus exposes them to a variety of patients with physical conditions
Content: Introduction to psychiatry. Introduction to psychosocial assessment Psychiatric interview, Mini-Mental and Mental Status Examination Theory: Introduction to formal and informal assessment methods 3 selected formal assessments, Informal assessment areas of work, personal maintenance, leisure and socialisation using activity Psychosocial symptoms in Occupational Therapy: Psychomotor activity, Thought process Perception, Attention and concentration, Memory, Problem solving, decision making and judgment, Insight, Self-esteem, Depression, Anxiety, Mania, Frustration, Reality orientation, Psychodynamic formulation, Genograms
Practicals: 8 weeks, 1 day per week, maximum 6 hours per day Guided assessment practical in which they work under guidance of a lecturer with clients in a hospital/clinical/institutional setting in KZN.
Assessment: FINAL MARK: CAM:EXAM 60:40. Formative Theory: Tests and/or assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation and Case study (10%) Fieldwork: Clinical Performance (50%) Fieldwork: Project (10%) Summative Theory Examination 1 x 3 hour written paper (100%)
DP Requirement: Attendance of 48 hours of fieldwork (in accordance with HPCSA standards) Formative assessment of ≥40%

OT Physical Theory and Fieldwork 2
OCTH246 W1
Prerequisite Modules: All first year modules
Corequisite: None
**Aim:** To provide students with the theory, principles and practice of assessment in relation to specific symptomatology as applied to the physical field of OT practice. It provides students with assessment skills that are required in the clinical field when one has to treat individuals or groups of patients. The practical component of the module gives students an opportunity to assess patients in hospital settings and thus exposes them to a variety of patients with physical conditions.

**Content:** •Review of Module and Introduction to Physical Assessment •Psychosocial problems associated with physical disability •Assessment of: Muscle strength, Muscle Tone and Postural reflexes, Joint Range of Motion, Sensation and Pain, Oedema, Balance and Equilibrium, Endurance, Co-ordination, Posture, Consciousness, Gait, Hand Function, Adult Perception, Special Senses •Introduction to intervention strategies for performance components: Muscle strength, Muscle Tone and Postural reflexes, Joint Range of Motion, Sensation and Pain, Oedema, Balance and Equilibrium, Endurance, Co-ordination, Posture, Consciousness, Gait, Hand Function, Adult Perception, Special Senses

**Practicals:** 8 weeks, 1 day per week, maximum 6 hours per day Guided assessment practical in which they work under guidance of a lecturer with clients in a hospital/clinical/institutional setting in KZN.

**Assessment:** FINAL MARK: CAM:EXAM 60:40 Formative Theory: Tests and/or assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation and Case study (10%) Fieldwork: Clinical Performance (50%) Fieldwork: Project (10%) Summative Theory Examination 1 x 3 hour written paper (100%)

**DP Requirement:** Attendance of 48 hours of fieldwork (in accordance with HPCSA standards) Formative assessment of ≥ 40%

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**OT Fundamentals 3**

**OCTH341 W1**

**Prerequisite Modules:** All second year modules

**Corequisite:** OCTH342WY

**Aim:** To develop an in depth knowledge and understanding of ethical theory and principles and application of intervention programmes for different performance areas. To enable students to understand and integrate theoretical constructs and models of OT into everyday practice. To develop appropriate professional ethical behaviour and attitudes including professional practice management; supervision of auxiliary staff; service development; departmental management, Quality Assurance and to equip students to appropriately apply relevant legislation/policy in practice

**Content:** The content of this module includes: •Conceptual framework for treatment planning by means of application of Theoretical frameworks and models in Occupational Therapy and Occupational Science; •Ethics and etiquette i.e. application of policies, laws and regulations as these apply to health education and welfare and labour, and their implications for occupational therapy •Knowledge about the rules and regulations governing ethics and professional behaviour and of the goals, roles and functions of the therapeutic helping relationship, •Information related to common occurrences, behaviours and critical incidents which may occur when treating a client/group of clients), research and management. •Theoretical knowledge related to policy and procedures; training, principles and supervision and legal requirements relating to support staff •Theoretical knowledge related to management of events, areas, departmental service development and programme planning and be able to apply this knowledge to situation that occur within the context of occupational therapy practice.

**Practicals:** Possibility of field trip to be arranged as when required

**Assessment:** FINAL MARK: CAM:EXAM 60:40. Formative: 3 written and/or practical tests / assignments (group or individual) (all averaged together). Summative: 1 x 3 hour written paper (100%)

**DP Requirement:** Formative assessment ≥ 40%

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**OT Therapeutic Media 3**

**OCTH342 WY**

**Prerequisite Modules:** All second year modules

**Corequisite:** OCTH351W1

**Aim:** To develop comprehensive knowledge and skill in planning and implementing appropriate OT intervention using a variety of techniques such as splinting, therapeutic apparatus, neurodevelopmental techniques and psychosocial techniques (groups, relaxation, stress management, social skills).

**Content:** Lectures: •General theory and clinical reasoning for the construction and evaluation of various splints and pressure garments •General theory and clinical reasoning for the use of assistive technology like therapeutic apparatus. •Introduction to neurodevelopmental techniques (NDT), with special reference to cerebral palsy and acquired brain injury. •Introduction to psychosocial techniques such as groups, relaxation therapy, stress management

**Practicals:** Splinting Practicals Pressure garments Practicals NDT practicals Psychosocial techniques practical
Assessment: Formative Assessment 100%. Splints (25%), Pressure garments (25%), 2 NDT Practical (25%), 2 Tests and/or Assignments (25%).

DP Requirement: As per faculty rules.

Psychosocial Theory and Fieldwork 3
OCTH343 W2

Prerequisite Modules: All second year modules
Corequisite: None

Aim: To provide students with the theory and application of relevant approaches to intervention, applicable principles and methods as these relate to different age groups, stages of recovery, and or phases of intervention as applied to psychosocial conditions.

Content: Lectures The OT specific assessment and treatment of a variety of psychiatric conditions, as well as psychosocial techniques as follows (but not limited to): childhood disorders, group intervention, institutionalisation, behaviour modification, role-play and role training, intellectual disability, growth games and warm-ups, values clarification, schizophrenia, anxiety disorders, anxiety management and relaxation, dementia, bipolar affective disorders, major depression, substance abuse disorders, social skills, assertiveness and conflict management, eating disorders, post-traumatic stress disorder, adolescent disorders and personality disorders and child psychiatry.

Practicals: 10 weeks, 1½ day per week, maximum 12 hours per week Guided assessment practical in which they work under guidance of a supervisor with clients in a hospital/clinical/institutional setting in greater KZN.

Assessment: FINAL MARK: CAM: EXAM 60:40. Formative Theory: Tests and assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation and Case study (10%) Fieldwork: Clinical Performance (50%) Fieldwork: Project (10%) Summative Theory Examination 1 x 3 hour written paper (100%)

DP Requirement: Must complete a minimum of 110 hours fieldwork placement (in accordance with HPCSA standards) Formative assessment ≥ 40%

OT Physical Theory & Fieldwork 3
OCTH344 W1

Prerequisite Modules: All second year modules
Corequisite: None

Aim: To provide students with the theory and application of relevant approaches to intervention, applicable principles and methods as these relate to different age groups, stages of recovery, and or phases of intervention as applied to psychosocial conditions.

Content: Introduction to the module. OT intervention with respect to: •Neurological Conditions (CVA, TBI, SCI, Degenerative Conditions, Seating of the Neurologically impaired Individual) •Musculo-skeletal Conditions (Arthritic Conditions, Bone/Joint pathologies, Back Pathologies, Ergonomics related to physical disability) •Surgical Conditions (Burns, Amputations, Arthroplasties) •Medical Conditions (HIV, Oncology, TB, Role of OT in Palliative Care) •Introduction to Hand Conditions •General OT Interventions (Sexual Counselling, Family Counselling, Care-giver Training, Support groups, Psychosocial impact of Physical Disability/Disease) •Physical Paediatrics Seminars (Student Driven) These may vary according to Health trends. Examples include •Diabetes •Low Vision (in Paediatric/Adult Patients) •Cardiac Rehabilitation •Pressure care •Disabled Sport •Hippotherapy

Practicals: 10 weeks, 1½ days per week, maximum 12 hours per week Guided assessment practical in which they work under guidance of a lecturer with clients in a hospital/clinical/institutional setting in KZN.

Assessment: FINAL MARK: CAM: EXAM 60:40. Formative Theory: 2 Tests and/or assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation and Case study (10%) Fieldwork: Clinical Performance (50%) Fieldwork: Project (10%) Summative Theory Examination 1 x 3 hour written paper (100%)

DP Requirement: Attend a minimum of 100 hours fieldwork placement (in accordance with HPCSA standards) Formative assessment ≥ 40%

Physical Theory and Fieldwork 4
OCTH412 WY

Prerequisite Modules: OCTH311W2, OCTH312W1, OCTH321W1, OCTH351W1; HLSC301, HLSC302, HLSC303, HLSC304, HLSC305, HLSC310, HLSC300
**Aim:** To train students in the principles and practice of an integrated programme management of individuals and/or groups in different settings catering for persons with physical disease, trauma, disability or those who are at risk of these. (i.e. Institutional and Community-Based) To develop appropriate professional ethical behaviour.

**Content:** An overview of integrated programme management for individuals/groups and settings, including the role and function of the OT within such settings. Departmental procedures/policy and management, including setting up a new department. Advanced therapeutic equipment and dynamic splinting and advanced assistive devices.

**Practicals:** Fieldwork & supervision: 4 days per week for approximately 6-7 weeks, at a site dependent on the fieldwork placement areas available from year to year with a minimum of 1.5 hours per week on site clinical teaching and supervision by a University appointed supervisor. Additional clinical teaching and supervision provided by clinicians (where available) on site.

**Assessment:** FINAL MARK: CAM:EXAM 50:50. Formative: 1 Tests (15%) and 1 Assignment (15%), written case (15%), clinical performance (55%), Summative: Component 1.Theory exam paper 3 hours (50%); 2. FW final presentation (12.5%); 3. FW final demo and evaluation (12.5%); 4. Exam presentation (12.5%) and 5; Exam demo and evaluation (12.5%).

**DP Requirement:** Formative assessment mark of ≥ 40%. Completion of the 210 hours of fieldwork

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**Community Theory and Fieldwork**

OCTH413 WY

**Prerequisite Modules:** All first, second and third year modules

**Aim:** To enable students to attain the necessary advanced assessment, intervention planning and implementation, knowledge and skills to practice effectively in Communities.

**Content:** Lectures: This content varies according to the community development trends and needs at the time. This may include Community based rehabilitation, policy, macro-economics, adult education principles, home-based care, models of practice in community development. Seminars: Students to prepare and present seminars of application of community theory and practice. Other students will debate the sessions to enhance their critical reasoning and ability on contentious issues at the time. Tutorials: Students discuss their progress on the fieldwork and bring specific cases to be debated and group work to be interrogated. This promotes interdisciplinary working in the community. Fieldtrip: Students have the opportunity to visit a particular community site and learn about occupations and different influences on the context of the people.

**Practicals:** 7 week practical block, 5 days per week in an identified community placement.

**Assessment:** FINAL MARK: CAM:EXAM 50:50. Formative Theory: 1 Test and 1 assignment (20%) Fieldwork: Handover Presentation including handover file (20%) Fieldwork: Oral Presentation (10%) Fieldwork: Clinical Performance (including journal / blog) (50%) Summative 1 x 3 hour written paper (60%) Portfolio (40%)

**DP Requirement:** Attendance of 180 hours of fieldwork (in accordance with HPCSA standards) Attain 40% on formative assessment

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**Paediatric Theory and Fieldwork**

OCTH414 WY

**Prerequisite Modules:** All first, second and third year modules

**Corequisite:** None

**Aim:** To enable students to attain the necessary knowledge and skills for advanced assessment, intervention planning and implementation of therapy within different paediatric settings.

**Content:** Teamwork and working with families; Seating ; Sensory integration; Learning disabilities and visual perception; Postural control, gross and fine motor development; Assistive technology and augmented communication; Handwriting development and assessment; Paediatric OT activities workshop, including activity analysis review; interpreting results and Treatment Programme Planning; Report Writing; Palliative care in paediatrics

**Practicals:** 5 to 6 weeks, 3 days per week at a hospital 1 ½ days per week at the University clinic or school/NGO. Supervision and on-site clinical training provided by a University appointed academic supervisor for a period of 1 ½ hours per student per week. Supervision and clinical training in the university clinic provided by a lecturer one and ½ days a week

**Assessment:** FINAL MARK: CAM:EXAM 50:50. Formative Theory: Tests (10%), Assignments (10%) Clinical Performance (50%), Fieldwork: Case Presentation (10%), Fieldwork: Intervention Demonstrations (10%) and Case study (10%) Summative 1 x 3 hour written paper (50%) Exam Presentation (25%) and Exam Intervention Session (25%)
DP Requirement: Attendance of 180 hours of fieldwork (in accordance with HPCSA norms/standards) Attain 40% on formative assessment

OT Research Project
OCTH441 WY
Prerequisite Modules: All first, second and third year modules
Corequisite: None
Aim: To provide students with knowledge to conduct research with specific reference to research process; application of various research methods; use of various techniques to gather, analyse and present data and application of relevant research principles during research
Content: Review discussion on work covered in Applied Research Methods for Health Sciences (HLSC 300), introduction to Research Methods in OT, 3 x 2-3 hour workshops on proposal writing, practical application of ethics in research, practical application of research methods, qualitative and quantitative data analysis, development of relate technical skills in scientific writing, endnote, podium presentation and use of selected data analysis packages.
Assessment: 100% Formative Assessment Mark (CAM) Module that will be assessed as follows: Proposal Presentation (Internal Review Panel Mark) :10% Project Report (External Examiner’s Mark) :30% Project Report (Internal Examiner’s Mark) :30% Podium Presentation (Research Adjudication Panel Mark) :30% A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester
DP Requirement: formative assessment only

OT Psychosocial Theory and Fieldwork 4
OCTH443 WY
Prerequisite Modules: All first, second and third year modules
Corequisite: None
Aim: To enable students to attain the necessary advanced assessment, intervention planning and implementation, knowledge and skills to practice effectively in Mental Health Care settings and with persons with mental illness, or those at risk of developing such illness
Content: Policy and procedure issues in Mental Health; review of psychiatric disorders with emphasis on the OT role and contribution. Includes: Mental illness and the Law Programmes for different settings including: psycho-geriatrics, forensic, long term units, crises intervention, substance abuse, day care centres, abused/abandoned children, elderly, displaced and the poor Issues/trends in mental health and psychiatry such as dual diagnosis/revolving door, transcultural psychiatry Care provider training/relapse prevention Welfare issues (grants) HIV and psychiatry Child and adolescent psychiatry Psychosocial techniques (special programmes, advanced groups)
Practicals: All level 4 students are placed in at least (1) site providing Mental Health Care services during either Semester 1 or 2. Placement is 4.5 days and on approximately 5-7 weeks duration. Each student is expected to do both individual and group treatment and to carry a reasonable load of general tasks as required within an occupational therapy department.
Assessment: FINAL MARK: CAM:EXAM 50:50. Formative Theory: Tests and/or assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation (10%) and Case study (10%) Fieldwork: Clinical Performance (50%) Summative 1 x 3 hour written paper (50%) Case Presentation (25%) Treatment Demonstration (25%) 
DP Requirement: Attendance of 180 hours of fieldwork (in accordance with HPCSA standards) Formative assessment ≥ 40 %

OT Physical Theory and Fieldwork 4
OCTH444 WY
Prerequisite Modules: All first, second and third year modules
Corequisite: None
Aim: To train students in the principles and practice of the integrated programme management of individuals and/or groups in different settings catering for persons with physical disease, trauma, disability or at risk of these. (i.e. Institutional and Community-Based)
Content: This content varies according to the health trends and needs at the time. Revision: Review of conditions covered in previous physical modules. Seminars/Debates: Students to prepare and present a series of seminars on OT interventions and techniques. In addition, students will engage in debate sessions to enhance their critical reasoning ability on contentious issues at the time.

Practicals: All level four students are placed in at least (1) site providing intervention to clients with physically disabling conditions during either semester one or two. The placement is 4.5 days and approximately 5-7 weeks in duration. Each student is expected to do both individual and group treatment and carry a reasonable load of general tasks as required within an OT department.

Assessment: FINAL MARK: CAM:EXAM 50:50. Formative Theory: Tests and/or assignments (20%) Fieldwork: Assessment Demonstrations and Evaluations (10%) Fieldwork: Oral Presentation (10%) and Case study (10%) Fieldwork: Clinical Performance (50%) Summative 1 x 3 hour written paper (50%) Case Presentation (25%) Treatment Demonstration (25%)

DP Requirement: Attendance of a minimum of 180 fieldwork (in accordance with HPCSA standards) A mark of 40% in Formative Assessment

Research Project
OCTH806 (0L-0T-0P-0S-960H-0R-0F-0G-0A-0W-96C)
Aim: The student will have to write up their research projects as a mini dissertation, which is then submitted for examination
DP Requirement: As per College rule

Upperlimb: Anatomy, Function, Injury & Disease
OCTH811 W1 (30L-0T-15P-15S-62H-30R-0F-0G-8A-13W-16C)
Aim: This module provides in depth information on the development systems, structures and function of the upper limb as well as tissue injury and repair to serve as basis for modules on hand conditions, assessment and therapeutic practice.
Content: The module covers development, aging, inter relatedness of muscular, nervous and circulatory system and the impact of injury and repair. The topics covered include:*Anatomy of the upper limb and hand including the CNS, PNS, osteology, musculature, blood supply*Development and aging of the upper limb and hand*Processes/principles of injury and repair*Implications of injury and disease upon function
Practicals: 5 practicals for this module (laboratory)
Assessment: Formative: tests/assigments/seminar x2 60%, spotter/oral/practical x 1 = 40% Summative: examination (oral/practical/spotter) = 40%, written = 60% Cam 60%, Exam 40%
DP Requirement: As per College rule

Hand Conditions (Complex)
OCTH812 W1 (30L-0T-6P-8S-71H-21R-0F-0G-24A-13W-16C)
Aim: This module provides occupational and physiotherapy practitioners with advanced knowledge and understanding of complex and common hand conditions/injury; their functional implications, medical, surgical and other models of management and considerations for such management.
Content: The module covers a variety of common and complex hand conditions and their clinical management which include but are not exclusive to: tendon injuries, brachial plexus injuries, peripheral nerve injuries, reflex sympathetic dystrophy, arthritic hand, the spastic hand, the re-implanted hand, burnt hand and orthopaedic complications e.g. crushed hand.*Functional and behavioral implications of disease/injury of upper extremity with emphasis on the hand.*Medical & surgical management models - rationale & critical evaluation, multi disciplinary approach. *Philosophy, policy, aims and principles of hand rehabilitation.
Practicals: There will be 2 clinical/practical sessions (clinic/ward round attendance & participation)
Assessment: FORMATIVE:Assignments x 1 (45%), test/ seminar (45%) and 2X clinical/practical session (10%)
SUMMATIVE: Examination: written 60%, oral practical 40%
DP Requirement: As per College rule

Hand Rehab, Therapeutic Pract I: Assessment
OCTH813 W2 (30L-0T-6P-8S-74H-30R-0F-0G-12A-13W-16C)
Aim: This module provides a comprehensive review of general and specific assessment of the upper limb and especially the hand and the evaluation and interpretation of these assessments, linkage of such assessment with appropriate interventions per component, the development of assessment batteries for local or regional conditions with reference to role and contribution to different team members.

Content: The topics covered include: *overview of general and specific upper limb and hand assessment (local and international) *standardised tests used for hand assessment *clinical assessment methods (procedures, considerations, precautions) *application, analysis, interpretation (Department specific) different methods, interpretation of clinical assessment, critical evaluation *design and development of assessment battery relevant to sitting/Department/client context *an overview of cross Department assessment methods and application and implications for intervention.

Practicals: There will be 2 practical (fieldtrips e.g. clinic/ward round/clinic attendance and participation)

Assessment: weighting as follows: participation in class (10%), practical/fieldtrips (10%), written tests/assignment/case study x 2 (80%), clinical practical session (10%) SUMMATIVE: examination: written 60%, oral practical 40% CAM 60, EXAM 40

DP Requirement: as per College rule

Therapeutic Pract II, Occupational Therapy
OCTH814 W2

Prerequisite Requirement: OCTH811W1 & OCTH812W1

Aim: Disorders of the hand & upper extremity are major causes of impairment/disability for adults & children which lead to a need for practitioners skilled in hand rehabilitation service provision. This module will enable graduate occupational & physiotherapy practitioners to advance professional knowledge & skill into rapidly expanding field of specialisation in upper limb and hand conditions.

Content: Advanced knowledge and skill in the application of occupational therapy modalities to different hand conditions in different hand conditions in different contexts and development of awareness of modulates as utilised by physiotherapy Topics to include: *sequelae of hand trauma and disease, bio psycho social model of understanding health and illness, cross culture issues in health and illness. *the hand as integral to human occupation *hand rehabilitation – theoretical constructs, rationale, critical review of clinical approaches to management *advanced treatment techniques in management of common upper limb problems such as oedema pain, stiffness, spasticity, adverse neural tension etc. with emphasis on selection, programme planning, implementation and evaluation of different treatment modalities as relevant to the scope of the profession. *training in specialised techniques at advanced level to include but not exclusive to: splinting (function and dynamic), neuro development techniques, sensory integrative principles, use of modalities such as ice and heat etc. *introduction to techniques as used in physiotherapy such as electrotherapy, acupuncture, strapping, other as relevant to teamwork

Practicals: There will be 4 practicals/fieldwork sessions for this module.

Assessment: FORMATIVE: class participation (10%), practical/fieldtrip linked to assignments// case studies X 2 ( 45% each) SUMMATIVE: 1x 3hr written exam and 1 X 30 minute oral exam. CAM:Exam 60:40

DP Requirement: As per College rule

Therapeutic Practice II, Physiotherapy
OCTH815 W2

Prerequisite Requirement: OCTH811W1 & OCTH812W1

Aim: Disorders of the hand & upper extremity are major causes of impairment/disability for adults & children which lead to a need for practitioners skilled in hand rehabilitation service provision. This module will enable graduate occupational & physiotherapy practitioners to advance professional knowledge & skill into rapidly expanding field of specialisation in upper limb and hand conditions.

Content: Advanced knowledge and skill in the application of physiotherapy modalities to different hand conditions in different contexts and development of awareness of modulates as utilised by occupational therapy Topics to include: *sequelae of hand trauma and disease, bio psycho social model of understanding health and illness, cross culture issues in health and illness. *hand rehabilitation – theoretical constructs, rationale, critical review of clinical approaches to management. *advanced treatment techniques in management of common upper limb problems such as oedema pain, stiffness, spasticity, adverse neural tension etc. with emphasis on selection, programme planning, implementation and evaluation of different treatment modalities as relevant to the scope of the profession. *training in specialised techniques at advanced level, such as electrotherapy, acupuncture, myofascial release and other techniques as relevant *introduction to techniques as used in occupational therapy relevant for teamwork.
Syllabi

Practicals: There will be 4 clinical/practicals sessions for this module.
Assessment: FORMATIVE: class participation (10%), practical/fieldtrip linked to assignment/case study X 2 (45% each), SUMMATIVE: 1 X 3hr written exam and 1X 30 minute oral exam. CAM:Exam 60:40
DP Requirement: 50% DP required in order to sit for the final examination. 100% practical/fieldwork attendance, 80% lecture attendance

Research Methods and Design
OCTH816 W2 (40L-0T-5P-0S-100H-10R-0F-0G-5A-13W-16C)
Aim: The module is aimed at enhancing research skills of students in health related, and specifically Hand rehabilitation issues. The module equips students with skills necessary for the planning and execution of their research projects, and critically appraising published papers, being aware of problems of design, analysis and interpretation
Content: The module will focus advanced knowledge of the entire research process and on an in-depth examination and comparison of qualitative, quantitative and mixed methods designs. Students will have the opportunity to apply their acquired knowledge of research designs toward development of: Statement of the Problem, Literature review and Methodology.
Practicals: Practical assignment- questionnaire design
Assessment: 100% = CAM ; CAM i.e. Oral presentation of proposal : 40% and Written submission of proposal : 60%
DP Requirement: As per faculty rules.

Otorhinolaryngology

Otorhinolaryngology Clinical & Prof Prac 1
OHLY8A5 MC (20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.
Content: Anatomy, physiology, pathology and pharmacology relevant to the practice of operative surgical care; Principles of surgical care common to all surgical disciplines, and of orthopaedic, neurosurgical, urological, plastic and general and cardiothoracic surgical care.
Practicals: Students must be in an approved registrar's post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three 3-hour written paper; Oral examination. Candidates to pass all 3 papers and the oral examination individually.
DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Otorhinolaryngology Clinical & Prof Prac 2
OHLY8A6 MC (20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Requirement: None
Prerequisite Modules: OHLY8A5
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
**Content:** The theory and practice of otorhinolaryngology includes operative surgery and the applied sciences, anatomy, physiology and pathology.

**Practicals:** Students must be in an approved registrar's post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination – 50%, Three 3 hour papers; Oral examination – 50%; Clinical cases; OSCE; Viva Voce. Each component needs to be passed individually.

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

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**Ophthalmology**

**Ophthalmology Clinical & Prof Prac 1**

OPTH8A5 MC

(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Anatomy, physiology, pathology and optics.

**Practicals:** Students must be in an approved registrar's post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1A and Part 1B examination of the College of Ophthalmologists of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Part 1A: Written examination: Two 3-hour papers on anatomy and physiology. Part 1B: Written examination: Two 3 hour papers on pathology and optics Clinical examination on optics and pathology. A sub-minimum of 50% for each paper is required to pass.

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

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**Ophthalmology Clinical & Prof Prac 2**

OPTH8A6 MC

(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** OPTH8A5

**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

**Content:** Clinical Ophthalmology (medical and surgical).

**Practicals:** Students must be in an approved registrar's post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the
summative assessment for this module. The assessment is constituted as follows: Written examination – Two 3-hour papers covering ophthalmic medicine and ophthalmic surgery. Clinical examination – One long case and a series of short cases/OSCE; Oral examination. The weighting of the components are as follows: Written Paper 1 – 20%; Written Paper 2 – 20%; Clinical long cases – 20%; Short cases/OSCE – 30%; Oral examination – 10%. A subminimum of 50% for each component is required.

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

### Optometry

#### Introduction to Optometry and Optics

OPTM141 W2

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** This module serves as a foundational module to the visual science and clinical optometry modules in the higher levels. It provides students with a brief overview of the profession of optometry, optometric concepts and optical principles involved in the behavior of light and lens systems.

**Content:** Introduction to Optometry and other eye care professions, Professional communication, presentation and competencies. Optometric terminology and concepts, Visual problems, case history, preliminary testing, basic ocular motility, ocular anatomy, common ocular pathologies, optometric instrumentation, vision screening, Introduction to colour vision and stereopsis, physical and geometric optics, lens systems, prisms.

**Practicals:** 1 x 3 hour practical per week

**Assessment:** Formative Assessment: Two theory tests and one practical test. Summative Assessment: One three hour theory paper. A subminimum of 40% will apply.

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of practical sessions.

#### Community Optometry

OPTM142 W2

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** To equip optometry students with the necessary knowledge and understanding to interact with communities and other stakeholders in health promotion and health care delivery within national and professional frameworks. To highlight the impact of social, economic and environmental issues on the physical, mental and ocular health of patients and communities.

**Content:** This module broadly encompasses the South African health care system, determinants of health, health education and promotion, ethics, primary care optometry, environmental and occupational optometry and visual requirements, biophysical and psychophysical model of illness and visual impairment, clinical communication and interaction with patients in enhancing the clinical relationship. Professional ethics for optometry.

**Practicals:** None

**Assessment:** Formative (50%): 2 Theory tests and 1 Presentation. Summative (50%): 1 x 3 hour written paper

**DP Requirement:** A CAM of at least 40%.

#### Clinical Techniques I

OPTM231 W1

**Prerequisite Modules:** OPTM141 W2, BIOL103, MATH150, PHYS131, ANAT103, ANAT108

**Aim:** To be able to conduct various refractive techniques for the assessment of the visual system and diagnosis of visual anomalies.

**Content:** Case History. Externals. Visual acuity. Retinoscopy (static) Subjective refraction techniques. The determination of spherical and astigmatic ametropia. Accommodative function. Presbyopia. Heterophoria and Heterotropias, Ophthalmoscopy. The integrated clinical routine. While the lectures will provide the student with a theoretical understanding and background of the topics, the practical component of this module will equip the student
with the appropriate clinical skills, associated with these topics, which are required to perform many of the techniques. The above-mentioned topics are required for the performance of a comprehensive eye examination.

**Practicals:** One 3 hours per week with clinical supervision.

**Assessment:** There will be two theory tests written during the semester, in addition to two practical assessments. Random spot tests will also be given. The CAM will be an average of Theory test 1 and 2, Practical assessments 1 & 2, and the average of the spot test marks. The CAM will contribute 50% of the final mark for this module. The final exam will comprise a three hour theory paper and a clinical assessment. A subminimum of 40% will apply to each component in the final exam. Final mark = 50% of CAM + 50% of exam mark. 

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of practical sessions.

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**Clinical Techniques II**

**OPTM232 W2**

(42L-0T-63P-3S-24H-24R-0F-0G-4A-14W-16C)

**Prerequisite Requirement:** DP of 50% in OPTM231W1

**Aim:** To advance the clinical skills of the student obtained in OPTM231W1, to the level at which he/she may completely carry out all procedures available to the clinician and make an appropriate diagnosis and management decision.


**Practicals:** One 3 hour practical per week.

**Assessment:** Formative Assessment: Two theory tests and two practical assessments. Random spot tests will also be given. The CAM will be an average of Theory test 1 and 2, Practical assessments 1 & 2, and the average of the spot test mark. The CAM will contribute 50% of the final mark for this module. Students will be informed of any deviation from this formula in the calculation of the CAM. The mark obtained in the examination will contribute 50% to the final mark for this module. Final mark = 50% of CAM + 50% of exam mark. The sub-minimum for each of these components i.e. the theory paper and the clinical assessment, will be 40%.

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of practical sessions.

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**Ophthalmic Optics I**

**OPTM242 W1**

(39L-20T-26P-0S-24H-30R-0F-0G-21A-13W-16C)

**Prerequisite Modules:** MATH150, OPTM141

**Corequisite:** None

**Aim:** To optimize the adaptation of the science of optics to human vision problems, and to foster the recognition of ophthalmic optics as a primary core science within optometry.

**Content:** The content of this module will include knowledge and understanding of: spectacle lens designs, power, and thickness; various methods of determining the power of a spectacle lens and prism; compounding and resolving of prisms.

**Practicals:** 2 Hour practical per week Each student is expected to obtain the power of lenses using hand neutralization and vertometry, and determine prism power using a tangent scale. The practical sessions will be conducted on site in the Discipline of Optometry Ophthalmic Optics labs under the guidance of a supervisor.

**Assessment:** Formative Assessment (50%): Formative Assessment will comprise of theory tests, practical tests and spot tests. Summative Assessment (50%): One 2 hour written paper One 1 hour practical examination The subminimum for each of these components will be 40%.

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of practical sessions.

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**Clinical Science for Optometry**

**OPTM243 W2**

(39L-4T-0P-10S-52H-33R-0F-8G-14A-13W-16C)

**Prerequisite Modules:** BIOL103, OPTM141, ANAT103 and ANAT108

**Corequisite:** BIMI200, HPHS221

**Aim:** This module provides a detailed description of the anatomy and function of the eye and its adnexa, general pathology and the causation of disease, as well as the etiology, differential diagnoses, treatment and management of systemic diseases.
Content: Gross and detailed anatomy of the eye from the anterior to the posterior segment, blood supply to the eye, basic anatomy and neural functioning of the extra ocular muscles and the visual pathway. Introduction to Pathology and Disease of the human body.

Practicals: None

Assessment: Formative (60%): 2 Theory Tests, 1 Presentation, 1 Assignment Summative (40%): 1 x 2 hour written paper

DP Requirement: A CAM of least 40%.

Ophthalmic Optics II

OPTM244 W2

Prerequisite Modules: MATH 150, OPTM141

Corequisite: None

Aim: To further optimize the adaptation of the science of optics to human vision problems, and to foster the recognition of ophthalmic optics as a primary core science within optometry.

Content: The content of this module will include knowledge and understanding of lens characteristics and coatings; prisms; high powered lenses and aberrations. Lens identification, power determination and lens thickness measurements will be performed practically.

Practicals: 2 Hour practical per week Each student is expected to obtain the power of lenses using hand neutralization and vertometry; determine prism power using a tangent scale; identify different lens materials, tints, and lens designs; measure the power of a lens using a lens clock and lens thickness using callipers. The practical sessions will be conducted on site in the Discipline of Optometry Ophthalmic Optics labs under the guidance of a supervisor.

Assessment: Formative (50%) and Summative (50%) Formative Assessment: One 2 hour written paper, One 1 hour practical examination. The subminimum for each of these components is 40%.

DP Requirement: A CAM of at least 40%. Attendance at 100% of practical sessions

Diagnosis and Management of Ocular Disease

OPTM334 WY

Prerequisite Modules: OPTM231W1,OPTM232W2,OPTM243W2,OPTM242W1,OPTM244W2,HPHS221W1,HPHS222W2

Corequisite: None

Aim: To present a detailed description of the aetiology, pathogenesis, diagnosis, differential diagnosis, treatment and management of anterior and posterior ocular disease. Furthermore this module introduces students to diagnostics tests which may be used to examine the ocular health status of a patient. Thus this module provides fundamental theoretical and practical concepts for future optometric modules and patient care.

Content: The content of this module includes knowledge and understanding of abnormal conditions of the anatomical structures of the eye including the lids, cornea, conjunctiva, lacrimal apparatus, crystalline lens, uveal tract, sclera, extraocular muscles, vitreous, retina and optic nerve head, ocular manifestations of systemic disease and glaucoma. The practical diagnostic skills include contact tonometry, gonioscopy, binocular indirect ophthalmoscopy and optic nerve head examination.

Practicals: 1 x 3 Hour practical per week. Each student is expected to accurately and efficiently obtain the pressure of the eye using a contact tonometry, examine and diagram the retina and optic nerve head using an indirect ophthalmoscope and 90D lens, and examine and grade the anterior chamber angle using a gonio lens. The practical sessions will be conducted on site in the Discipline of Optometry clinic under the guidance of a supervisor.

Assessment: Four theory tests to be written during the year plus four practical assessments. Random spot tests will also be given for theory and practicals. The format of the test could include multiple choice questions (with negative marking), true and false (negative marking may be applied) and short questions and various other methods of assessment which will be announced in advance of any assessment. Assignments will be given. Tests that are missed will be covered in the form of a viva examination. The CAM will be an average of theory tests, practical assessments, average spot test mark, presentations based on external eye clinic visits and assignments. The CAM will contribute of the final mark for this module. The CAM will comprise 33.3% of all theory tests + 33.3% of all practical tests + 33.3% of (spot tests, assignments and presentations). Final mark = 50% of CAM + 50% of exam mark. Final examination would comprise one theory paper – 3 hours (MCQ’s, with negative marking, true and false (negative marking may be applied) and short questions will be included. Students will be informed about the format of the examination. One practical
examination may also include an oral exam which will constitute 30% of the practical examination. The sub-minimum for the practical examination must be fulfilled for each major diagnostic technique in order for the student to pass the practical examination in totality. Should this not be fulfilled, then the student is required to repeat the failed technique. If an overall practical examination mark of 75% is not obtained by the student then the entire practical examination must be repeated by the student. The sub-minimum for the theory component will be 40% while the subminimum for the practical component will be as stated above.

**DP Requirement:** AA CAM of at least 40%. Attendance at 100% of practical sessions.

**Optical Dispensing**

OPTM341 W1

(20L-0T-42P-0S-51H-30R-0F-0G-17A-13W-16C)

**Prerequisite Modules:** OPTM231W1, OPTM232W2, OPTM242W1, OPTM244W2, HPHS222W2

**Corequisite:** None

**Aim:** To develop optical dispensing knowledge and skills for efficient optical management to various human visual problems.

**Content:** The content of this module will include knowledge and understanding of spectacles for the correction of visual problems taking into account occupational and environmental needs. Dispensing of spectacles which include ordering & verification, manufacturing, costing & coding. Adjusting and alignment of spectacles.

**Practicals:** 1 x 3 hour practical session per week. A field trip to a commercial optical laboratory for a minimum of 3 hours. Cutting and fitting of two spectacles.

**Assessment:** Formative (50%): Two theory tests and two practical tests. Summative (50%): One 2 hour written paper and one practical assessment. The subminimum for each of these components will be 40%.

**DP Requirement:** CAM of at least 40%. Attendance at 100% of practical sessions

**Visual Science I**

OPTM342 W1

(60L-26T-0P-6S-15H-37R-0F-0G-9A-13W-16C)

**Prerequisite Modules:** OPTM231, OPTM232, OPTM242 and OPTM244

**Corequisite:** None

**Aim:** To develop a higher and more intensive level of understanding the effects of optical correction on the human eye, its clinical, physiological and optical ramifications. To broaden the understanding of the optical and visuo-psychological entities comprising the hierarchy of visual information processing.

**Content:** The content of this module considers the eye as an optical system to understand the optical implications of spectacle and contact lens corrections. The content also includes knowledge and understanding of the accommodative and vergence functions and of the eye with emphasis of tests used for evaluations of these functions and the management of dysfunctions. The neurophysiology of visual processing is included in the neurophysiology section of the module.

**Assessment:** Formative Assessment (50%): Two theory tests, Tutorial tests and Spot tests will be given. Summative Assessment (50%): One 3 hour written paper The subminimum for each of these components will be 40%.

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of tutorial sessions

**Visual Science II**

OPTM343 W2

(60L-0T-33P-6S-15H-37R-0F-0G-9A-13W-16C)

**Prerequisite Requirement:** 50% DP in OPTM342

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** To further develop a broader understanding of the optical and visuo-psychological entities (spatial awareness, colour vision, stereopsis and fixation disparity) comprising the hierarchy of visual information processing, together with it testing via electrodiagnostic methods. Furthermore, to provide the student with the understanding of ocular myology and eye movements from a neurophysiological basis.

**Content:** The content of this module will include knowledge and understanding of the visual space sense taking into account both monocular and binocular spatial localisation. The content also includes associated visual functions such as stereopsis, fixation disparity colour vision. Optical-induced spatial distortions and the different types of aberrations and entoptic phenomena of the human eye will also be covered. Ocular myology, contrast sensitivity and modulation transfer function.
Practicals: 1 x 3 hour practical per week be conducted under the guidance of a supervisor. Each student is expected to perform accurately and efficiently tests to examine the fixation disparity, colour vision and stereopsis functions of a patient. Two of the practical sessions will be used for seminars.

Assessment: Formative Assessment (50%): Two theory tests, Seminar write-up/practical tests, Random spot tests. Summative Assessment (50%): One 3 hour written paper (50%). The subminimum for each of these components will be 40%.

DP Requirement: A CAM of at least 40%. Attendance at 100% of tutorial sessions

General Clinic 1/ Grand Rounds
OPTM351 WY

Prerequisite Modules: OPTM231W1, OPTM232W2, OPTM243W2, OPTM242W1, OPTM244W2, HPHS221, HPHS222

Corequisite: None

Aim: The student will understand and acquire clinical expertise in ocular assessments and would be able to examine patients more effectively. The student would be able to perform a complete ocular examination with supervision.


Practicals: Two 3-hour per week. Clinical supervision: Yes

Assessment: This is a continuous assessment module. Formative assessments will comprise of four clinical assessments during the year (which includes one competency assessment) and one case presentation.

DP Requirement: Students must obtain a final average mark of 50% in the continuous assessment tasks in order to obtain credit for this module.

Contact Lenses 1
OPTM362 W2

Prerequisite Modules: BIMI200, OPTM231, OPTM232, OPTM243, OPTM242, OPTM244, HPHS221, HPHS222

Aim: To teach all aspects of modern contact lens practice with particular emphasis on dealing with spherical lens fits and uncomplicated contact lens specifications. Also to provide the students with clinical experience in assessing the patients suitability for contact lens wear, fitting spherical soft and rigid lenses and managing patients wearing these lenses.

Content: The module covers the following: The anatomy and physiology of the anterior segment of the eye. Corneal topography measurement and significance. Contact lens history, materials and manufacturing methods, optics, design, instrumentation, fitting-routine procedures, lens dispensing, patient education, aftercare and contact lens solutions. Verification and modification of lenses, slit lamp biomicroscopy, hydrogel and rigid contact lens fitting, care and maintenance and contact lens related complications.

Practicals: One 3 hour practical per week

Assessment: Formative: 50% Summative: 50%. One 3 hour written paper and one practical assessment. The subminimum for each of these components will be 40%. If subminimum is not met for one component, only that component will be repeated in the supplementary examination.

DP Requirement: A CAM of at least 40%. Attendance at 100% of practical sessions.

Contact Lenses II
OPTM431 W1

Prerequisite Modules: OPTM362, OPTM351

Corequisite: None

Aim: To provide students with the necessary theory and clinical background for advanced contact lens fitting.


Practicals: One 3-hour per week.
Assessment: Formative Assessment: 2 theory tests, one practical test and random spot tests. Summative Assessment: One 3 hour theory paper and one practical examination. The sub minimum for each of the components i.e. the theory exam and the practical exam will be 40%. The final mark for the module will comprise 50% of the CAM and 50% of the exam mark.

DP Requirement: CAM of at least 40 %. Attendance at 100% of clinical sessions.

Paediatric Optometry
OPTM433 W1 (42L-0T-42P-0S-36H-36R-0F-0G-4A-14W-16C)
Prerequisite Modules: OPTM351,OPTM342,OPTM343,OPTM334,PHRM344
Corequisite: None
Aim: To provide the students with the theoretical and clinical knowledge and skills to promote good vision, screen, assess, diagnose and manage the vision of children and make appropriate referrals.
Content: Developmental milestones of gross and fine motor function, cognition, speech and communication and vision development. Vision screening; vision examination, diagnosis and management vision problems in the infant, toddler, preschooler, school aged child. Vision and school performance; delayed development and vision therapy.
Practicals: One 3-hour per week. Clinical supervision: yes
Assessment: Formative: Two theory tests and two clinical assessments. Random spot tests will also be given. The CAM will contribute 50% of the final mark for this module. Summative: The examination will include a 1 X 3 hour theory paper, and a practical examination. A sub minimum of 40% to each exam component will apply. Final Mark = 50% of CAM + 50% of exam mark.
DP Requirement: Students must obtain a CAM of at least 40%. Attendance at 100% of practical sessions.

Binocular Vision
OPTM435 W1 (42L-0T-42P-0S-34H-34R-0F-0G-8A-14W-16C)
Prerequisite Modules: OPTM342W1,OPTM343W2,OPTM351WY,OPTM334WY
Corequisite: None
Aim: At the end of the course the learner should have: a thorough knowledge of the binocular vision system and it's various non-strabismic and strabismic anomalies. the ability to use the relevant clinical equipment competently and efficiently to arrive at the diagnosis and perform therapy on patients.
Practicals: One 3-hour practical per week. Clinical supervision: yes
Assessment: Formative: Two theory tests and one practical assessment. Random spot tests may be given and included as one additional theory test. The Final mark for the module will comprise 50% of the CAM and 50% of the examination mark. Summative: One 3 hour theory paper that and a practical examination. A sub minimum of 40% will apply to each of the components of the final examination i.e the theory paper and the practical examination.
DP Requirement: A CAM of 40 %. Attendance at 100% of practical sessions.

Low Vision
OPTM437 W1 (42L-0T-42P-0S-36H-36R-0F-0G-4A-14W-16C)
Prerequisite Requirement: 40% DP in OPTM321W1, 40% DP in OPTM342W2
Prerequisite Modules: OPTM334WY,OPTM351WY
Corequisite: None
Aim: To equip the learner with the theoretical and clinical knowledge, and skills for the assessment, diagnosis and co-management of low vision patients.
Content: Definitions and epidemiology of low vision and blindness; functional losses; psychological and sociological factors; the low vision examination and diagnosis; principles of magnification; calculation of magnification; optics of low vision devices; optical and non-optical devices demonstration, trial and fitting/prescribing assistive devices; illumination controls; options for visual field enhancement; bioptic telescopes; building designs for the partially sighted and blind; orientation and mobility; referrals and service organizations.
Practicals: One 3-hour practical per week.
**Assessment:** Formative: Two theory tests and one practical assessment. Random spot tests and assignments may also be given. Students will be required to present on low vision related topics during seminars. The CAM will be calculated using marks from all formative assessment tasks. The CAM will contribute 50% of the final mark for this module. Summative: 1 clinical assessment which may include a viva by an external examiner. Final mark = 50% of CAM + 50% of Exam mark. The sub-minimum for each examination component will be 40%.

**DP Requirement:** CAM of at least 40%. Attendance at 100% of practical/clinical sessions.

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**Research Methods & Publication for Optometry**
OPM442 WY

**Prerequisite Modules:** All third level modules

**Corequisite:** None

**Aim:** This module will introduce the student to research designs, methodology, statistical analysis, scientific report writing and research presentations. The students will acquire the basic skills to conduct a research study.

**Content:** The content of this module includes the selection and design of a research study, data analysis, report writing and the presentation of research findings.

**Practicals:** None

**Assessment:**
Formative (50%): 2 x clinical assessments, 2 x Theory tests.
Summative (50%): Patient Assessment (25%), Written paper (25%)

**DP Requirement:** None

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**General Clinic II**
OPM443 W1

**Prerequisite Modules:** OPM351WY, OPM334WY, PHRM344W2, OPM341W1, OPM362WY

**Corequisite:** None

**Aim:** To equip the student with the clinical knowledge, skills and clinical experience in the assessment, diagnosis and management of the ocular and visual health of a patient ensuring the implementation of these in the clinical environment as a qualified optometrist as well as to prepare the students to play a meaningful role in the proper management of optometric services.

**Content:** Clinical assessment, diagnosis and management of a patient. Optometric Practice management.

**Practicals:** As this module is a clinical module it will comprise of: 1 x 4.5 hour clinical session per week, 1 x 2 week rotation aboard the Phelophepa Healthcare Train, 1 x 4 hour work-based placement.

**Assessment:** Formative (50%): 2 x clinical assessments, 2 x Theory tests. Summative (50%): Patient Assessment (25%), Written paper (25%)

**DP Requirement:** A CAM of at least 40%. Attendance at 100% of clinical sessions.

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**Clinical Grand Rounds**
OPM444 W2

**Prerequisite Requirement:** Minimum 40% DP in OPM435W1, OPM431W1, OPM437W1, OPM433W1, OPM443W1

**Corequisite:** None

**Aim:** To equip the student with the clinical knowledge, skills and experience in the assessment, diagnosis and management of the ocular and visual health of a patient.

**Content:** The module will comprise of five sub-components with equal weighting namely General Clinic, Paediatric Optometry, Low Vision, Binocular Vision, Contact Lenses. These will entail clinical assessment, diagnosis and management of all patients (adults and paediatric) with visual anomalies which includes correction of refractive error with spectacles and contact lenses; prescribing low vision aids and other forms of visual rehabilitation; management of strabismic and non-strabismic binocular anomalies; vision therapy; treatment of ocular pathology including by use of
pharmaceutical agents; appropriate referral of all clinical cases; administrative and management skills, patient education and ethics.

**Practicals:** As this module is a clinical module it will comprise of: 4 x 3 hour clinical sessions per week, 1 x 4.5 hour clinical session per week, 5 x 1.5 hour seminars/case presentation per week.

**Assessment:** This is a continuous assessment module which will include Patient Assessments and Report Writing, Case Presentations, Slide Tests, Theory &/or Spot Tests, Practical Assessments & Vivas. A student must obtain 50% in each component (General Clinic, Binocular Vision, Contact Lenses II, Low Vision and Paediatric Optometry) of the module in order to achieve an overall pass; failing which a student will be required to repeat the entire module.

**DP Requirement:** None

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**Orthopaedics Surgery**

**Orthopaedic Surg Clinical & Prof Prac 1**

ORPS8A5 MC  
(30L-96T-0P-48S-288H-80R-1900F-36G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Clinically relevant Embryology, Anatomy and Physiology, Pharmacology, Physics, Clinical measurement; Clinical Chemistry; Pathology.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination: Two 3-hour papers of MCQ and/or short written questions on basic sciences. Two 3-hour papers consisting of essay and/or short questions, one paper focusing on the principles of surgery in general and the other on orthopaedic surgery. Two oral examinations – one on the principle of surgery in general and the other on orthopaedic surgery. A subminimum of 50% is required for all written papers and both oral examinations.

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

**Orthopaedic Surg Clinical & Prof Prac 2**

ORPS8A6 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** ORPS8A5

**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

**Content:** Orthopaedic pathology, Theory and practice of orthopaedic surgery.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination: Three 3-hour
papers; Clinical examination: including long major clinical cases and short minor clinical cases; Oral examination: comprising of orthopaedic trauma, reconstructive orthopaedic surgery and orthopaedic pathology. All 3 components have to be passed separately and are of equal weighting.

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

### Paediatrics and Child Health

#### Paediatrics Clinical & Prof Prac 1
PAED8A5 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** None  
**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Embryology, anatomy, genetics, physiology, pathology, epidemiology, pharmacology and principles of therapeutics; Laboratory investigations which are relevant to conditions encountered in the practice of paediatrics and child health in South Africa.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: A written examination comprising of three 3-hour papers as follows: Paper 1 – MCQ questions; Paper 2 – Scenario based questions; Paper 3 – Short note type questions. Each paper needs to be passed separately.

**DP Requirement:** 70% attendance at designated learning activities, Satisfactory completion of a portfolio and/or logbook.

#### Paediatrics Clinical & Prof Prac 2
PAED8A6 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None  
**Prerequisite Modules:** PAED8A5  
**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

**Content:** Diagnosis and management of a wide range of paediatric conditions – both common and uncommon; Health promotions and illness prevention in children; Medical and surgical radiology.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: A written examination comprising of Three 3-hour papers (50%); Paper 1 and Paper 2 (16.6% each); Paper 3 – An OSCE (theme based questions) (16.6%); A clinical examination of cases (50%). All components need to be passed separately.

**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.
Public Health

Basics of Health Measurements
PBHL6BH H1
(25L-0T-0P-0S-40H-5R-0F-12G-78A-13W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide learners with an introduction to the principles of descriptive epidemiology, and biostatistics; and to demonstrate how these are applied in approaches to the planning and evaluation of public health interventions
Content: The student will be exposed to the key concepts of epidemiology, and its application to public health, and how to summarize, present and interpret raw data, Principles of demography and population health and trends in mortality and fertility, impact of HIV and AIDS, population policies, migration and urbanization
Practicals: None
Assessment: Written Assignments (40%); Group Assignment (10%); 3-hour written examination (50%) 3 individual assignments; 1 group assignment. Exam=1
DP Requirement: None

Introduction to Child and Adolescent Health
PBHL6CA H1 H2
(18L-2T-8P-5S-60H-20R-0F-7G-40A-0W-16C)
Prerequisite Modules: Introduction to Health Measurement Descriptive
Aim: Introduce postgraduate diploma in public health students to the public health issues pertaining to child and adolescent health at the national and local level; to evaluate child and adolescent health programmes and services; to plan child and adolescent health programmes and services in line with identified best practice models
Content: Child and Adolescent Health as public health and human rights issues Policies and frameworks underpinning child and adolescent health initiatives The state of the South Africa’s children, adolescents and youth Key public health issues in child and adolescent health Evaluating child and adolescent health at the local level Planning public health child and adolescent health programmes at the local level
Practicals: None
Assessment: Written Assignments (30%); Group Assignment (20%); 3-hour written examination (50%) 2 individual assignments; 1 group assignment Exam=1
DP Requirement: None

HR Mngt for Health
PBHL6CM
(0L-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)
Aim: To develop skills in the management of people in the workplace and in the context of the health care system
Content: Macro - context of human resources management in the South African health system; Employee empowerment; Training and development in the health sector; workforce planning; job analysis; organizational design and job design. Recruiting, selecting and orienting employees within the health system; appraising and managing work performance; employee motivation; conflict resolution; communication; Legislative framework in the health context; Human resources for health in Rural areas.
Assessment: 2 major assignments (40%); 1 group assignment (10%) and 3-hour written examination (50%) 2 individual assignments; 1 group assignment Exam=1
DP Requirement: As per college rules

Dental Public Health
PBHL6DP H2
(25L-0T-12P-0S-28H-5R-0F-12G-78A-15W-16C)
Prerequisite Requirement: None
Corequisite: None
Aim: To provide students with knowledge in population-based oral health care, oral health surveillance, introduction to oral health planning, community-based oral disease prevention, oral health systems and health and oral health promotion and equip them with the ability to apply this knowledge in their practice.
Content: This module is made up of a theory component comprising of Dental Epidemiology, Primary Oral Health Care, Oral Health Promotion and Oral Health Systems Development and Oral Health Planning.
Practicals: 1hourx12 weeks = 12hrs
Assessment: Both formative (50%) and summative (50%) assessments are used, as indicated below: 2 x Online quiz @ 5% each 10% Group assignments 10% Individual assignments 30% Summative 3 hour theory exam 50% Total 100%
DP Requirement: None

Maternal Health and Newborn Health
PBHL6M1
Aim: This is an elective module in the Master of Public Health Programme and has been designed to enable public health practitioners to analyse the status of maternal and newborn health, and service delivery, and to develop and implement strategies at various levels in the health system to improve the quality of care provided to women and their babies.
Content: Maternal health as a public health issue A conceptual framework for analysing the Public Health aspects of maternal health, Measuring maternal health, Measuring the health status of mothers and babies, Measuring the availability of maternal and neonatal services, Measuring service utilisation, Measuring the quality of care, Major causes of maternal and perinatal mortality, National programmes and policies for improving maternal health status and reducing maternal and perinatal mortality, Local strategies to improve the quality of maternal and perinatal care
Assessment: Assignments (50%); 3 hour written examination (50%) 2 assignments (1 group work & 1 individual assignment) Exam=1
DP Requirement: As per faculty rules.

Intro to Maternal and Reproductive Health
PBHL6MR
Aim: Introduce postgraduate diploma in public health students to the public health issues pertaining to maternal and reproductive health at the national and local level; to evaluate maternal and reproductive health programmes and services; to plan and redesign maternal and reproductive health programmes and services in line with identified best practice models.
Content: Maternal and reproductive health as public health issues Policies and conceptual frameworks underpinning maternal and reproductive health programmes National and local burden of morbidity and mortality associated with maternal and reproductive health Evaluation of maternal and reproductive health programmes and services Planning public health maternal and reproductive health programmes at the local level
Practicals: None
Assessment: Individual Written Assignments (40%); Group Assignment (10%); 3 hour written examination (50%) 2 assignments (1 group work & 1 individual assignment) Exam=1
DP Requirement: None

Health Systems
PBHL6N1
Aim: This module is designed to enable learners to critically analyze the current South African health system, to broadly compare it with other health systems and to identify factors driving health system reform. A specific emphasis will be placed upon the district health system and primary health care as the cornerstones of the transformation of the health system. The module is intended to serve as a foundation for the further study of health systems (i.e. Health Policy and Legislation, Health Economics and Financing). Successful graduates functioning as health managers will be able to analyze problems related to the functioning of the health system and initiate appropriate responses at their level.
Content: Introduction to health systems Broad review of the types of health systems National health care systems – trends, changes and reforms Major themes in health system trends, changes and reforms: o Primary Health Care o Decentralisation o Community Participation in health systems o Equity Measuring the performance of health systems Selecting and organising health services for improved performance of health systems Generating resources for the improved performance of health systems Financing health systems for improved performance Improving the performance of health systems through stewardship
**Assessment:** 3 assignments and 1 practical task (group work) (50%); one 3-hour written examination (50%) 2 assignments (1 group work & 1 individual assignment) Quizes=2 Exam=1

**DP Requirement:** As per college rules.

**Total Quality Mgmt and Corporate Governance**

PBHL6QM H2 (25L-0T-5P-7S-40H-30R-0F-0G-53A-13W-16C)

**Prerequisite Requirement:** None

**Corequisite:** None

**Aim:** To equip students with both the theoretical and practical skills to appreciate and implement quality management strategies that are most appropriate and cost effective for a particular institution in a specific situation and to develop skills of students in the design and implementation of guidelines and mechanisms to ensure good behaviour and protection of and promote accountability, transparency and good quality of care

**Content:** Definition sand dimensions of Quality of healthcare, Quality assurance, Lean thinking principles, Monitoring quality , Business planning and managerial accountability, Equity legislation and diversity management; Models of corporate governance; Corporate governance principles; Performance monitoring, decision-making and control mechanisms; Key role-players in corporate governance; Corporate social responsibility.

**Practicals:** None

**Assessment:** Written Assignments (40%); Group Assignment (10%); 3-hour written examination (50%) 2 individual assignments; 1 group assignment Discussion forum=1 Exam=1

**DP Requirement:** None

**Operations, Risk and Supply Chain Mgmt**

PBHL6RM H2 (25L-0T-5P-7S-40H-30R-0F-0G-53A-13W-16C)

**Aim:** Learners equipped with the skills and theory to be able to ensure that operations in their organizations are run effectively and efficiently and produce expected outcomes

**Content:** Operations strategy; Strategic role of operations ; facility management; what categories of assets are to be maintained; how and on what basis are they maintained; range of skills required; strategic objectives of pharmaceutical procurement; procurement; transport management;quality assurance; managing effective referral systems, Risk and auditing and supply chain management

**Assessment:** Written Assignments (40%); Group Assignments (10%); 3-hour written examination (50%) 2 assignments (1 group work & 1 individual assignment) Exam=1

**DP Requirement:** None

**Public Health Service Learning**

PBHL6SL (0L-0T-0P-0S-320H-0R-0F-0G-0A-0W-32C)

**Prerequisite Requirement:** Core modules of the Postgraduate Diploma in Public Health

**Aim:** Expose students to practical research

**Assessment:** 2 assessments: Assessment of a Mini Protocol; Assessment of a submitted Mini Research Project Report. No examination or tests.

**DP Requirement:** None

**Operations Management**

PBHL6TM (0L-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)

**Aim:** The learners will be equipped with the skills and theory to be able to ensure that operations in their organizations are run effectively and efficiently and produce expected outcomes. Operations management is a practical process and therefore learning will be based on various case studies

**Content:** Operations strategy; Strategic role of operations ; facility management; what categories of assets are to be maintained; how and on what basis are they maintained; range of skills required; strategic objectives of pharmaceutical procurement; procurement; transport management;quality assurance; managing effective referral systems

**Assessment:** Group presentations (10%); Individual Assignments (40%); 3-hour written examination (50%) 2 individual assignments; 1 group assignment Exam=1

**DP Requirement:** As per college rules
P H M Professional Practice II
PBHL834 HC

Prerequisite Requirement: Public Service Learning attachment, Health Measurement Descriptive, Health Measurement Analytic, Qualitative Research, Research Methods and Bio-ethics and Research Dissertation for Public Health Medicine
Corequisite: None
Aim: The main aim of this module is to ensure that registrars have acquired the necessary theoretical knowledge in which allows them to practice public health medicine at a specialist level
Content: This module consists of completion of the examination of the College of Medicine of South Africa in public health medicine.
Practicals: None
Assessment: Passing of the college of medicine examination (100%) The different parts of the examination are weighted in the final average mark as follows (there are no sub-minima for any of the parts): Short report 1/6 Long report 1/3 Multiple choice paper 1/9 Short answers paper 1/9 Essay paper 1/9 Oral discourse 1/6
DP Requirement: The candidate must have successfully completed and passed the Research Project module at the time of sitting for the examination Completed the requirements for the Public Service learning module

Qualitative Research Methods
PBHL841 MC

Prerequisite Requirement: None
Aim: To enable public health practitioners to select public health problems that would benefit from qualitative inquiry and effectively apply the principles, processes and methods of qualitative research to the investigation of these problems.
Content: Introduction to research paradigms; Role of qualitative research in public health; the process of qualitative research; identifying a research problem and the overall research question; conceptual frameworks; formulating specific research questions and research statements; choosing and developing qualitative research designs; trustworthiness of qualitative research; planning, negotiating and entering a study site; sampling strategies in qualitative research; qualitative data collection; recording qualitative data and thick description; qualitative data management; data analysis; presenting qualitative data.
Assessment: Individual and group assignment (50%), 3-hour exam (50%).
DP Requirement: None

Research Project in Public Health
PBHL899

Prerequisite Modules: Health Measurement Descriptive, Health Measurement Analytic, Research Methods and Bio-ethics, Qualitative Research Methods
Aim: The purpose of this module is for the student or to fulfil the research requirement of the Master of Public Health. Students will engage in public health research in a field that interests them and maybe from a specialist area in public health.
Content: The content is specific to the research project topic
Assessment: A 50% dissertation or published journal article to be examined by internal examiner and two external examiners appointed by the Postgraduate Education Committee of the School
DP Requirement: As per faculty rules.

Child and Adolescent Health
PBHL8CA H1 H2

Prerequisite Requirement: Health Measurement Descriptive
Corequisite: None
Aim: Enable master level students to analyse the national and global status of child and adolescent health; to identify public health strategies, programmes and policies to address key issues in protecting, promoting and ensuring child and adolescent health; and to identify priorities for further public health research
Content: Child and Adolescent Health as public health and human rights issues Frameworks for analysing the public health aspects of child and adolescent health The state of the world’s children, adolescents and youth Challenges in
the measurement of child and adolescent health

Key public health issues in child and adolescent health

Priorities for public health research in child and adolescent health

Practicals: None

Assessment: Individual written assessments – 30% Group Assignments – 20% 3-Hour written examination – 50%

DP Requirement: None

Epidemiology (Intermediate)
PBHL8E1 MC

Prerequisite Requirement: Research Methods and BioEthics

Aim: To provide learners with an in-depth understanding and fuller appreciation of the strengths and weaknesses of current epidemiological methods, and the skills to collect, analyse and use health information. The course will build on the basic principles and methods of epidemiology and biostatistics but will also focus on the application of these approaches to research and the planning and evaluation of public health interventions.

Content: Cause and causal inference; effect modification, interaction and confounding; study design; research proposals.

Assessment: Three assignments (45%), class participation (5%), report (50%).

DP Requirement: None

P H M Professional Practice 1
PBHL8GP HC

Prerequisite Requirement: None

Corequisite: None

Aim: To demonstrate core theoretical learning in practise and to practise the integration of core knowledge from clinical skills in public health medicine which allows them to practice at a specialist level

Content: This module consists of theoretical learning and work based learning (Hospital management, and Programmes in the field of Communicable and non-communicable Diseases, Quality Assurance, Clinical Governance, Maternal and child health, Primary Healthcare, Epidemiology and surveillance) and the practical application of the theoretical knowledge from core modules.

Practicals: None

Assessment: A formative assessment is conducted by a panel of public health medicine specialist and the student to determine if the student meets the objectives as stipulated at the commencement of the attachment. The student is expected to complete practical and paper based tasks, assignments and assessments relating to any two of the following modules- health systems and policy, health service management, health economics and financing and maternal and reproductive health, occupational medicine, occupational medicine legislation and environmental health (30 %). In addition, the student is expected to produce 6 formative assessments of work based learning and a composite short research report (70%)

DP Requirement: None

Research Dissertation Public Health Medicine
PBHL8GR HC

Prerequisite Modules: Health Measurement (Descriptive: PBHL8J1); Health Measurement (Analytical: PBHL8H1); Intermediate Epidemiology (PBHL8E1), Research Methods and Bio-ethics

Aim: The purpose of this module is to ensure students are able to practically apply the theoretical knowledge of public health medicine and epidemiology that they acquire during their training in a specific area of research. They must display an integration of epidemiological principles and concepts with public health medicine in the conduct of their research

Content: The module consists of the completion and submission of a research dissertation. The content of the research project must be public health medicine related

Practicals: None

Assessment: Submission of the dissertation that is marked by two external examiners with the candidate obtaining greater than 50%

DP Requirement: None
Health Measurement (Analytic)
PBHL8H1 MC
(12L-32T-6P-6S-60H-41R-0F-0G-3A-0W-16C)

Prerequisite Requirement: Health Measurement (descriptive)

Aim: To introduce learners to the principles and methods of analytical epidemiology and biostatistics. The module will focus on the applications of these approaches to the planning and evaluation of public health interventions.

Content: Causality in epidemiology. Planning and conducting epidemiological studies. Analysing epidemiological studies: probability distributions, confidence intervals and "p" values, hypothesis testing, comparison of two means, contingency tables, Pearson correlation, regression, non parametric statistics, standardisation, evidence based health care, bias, confounding.

Assessment: Two group exercises (5%), two group assignments (5%), two individual assignments (40%), one 3-hour written examination (50%).

DP Requirement: None

Health Economics and Financing
PBHL8HF H1
(0L-0T-0S-160H-0R-0F-0G-0A-0W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: The course aims at enhancing the knowledge of the participants in economic concepts and principles, by strengthening the theoretical base and introducing practical applications of economic concepts and techniques that are useful to those involved in policy making and planning health care services. The course aims at aiding health policy decision-makers by injecting analytical information into the policy process.


Practicals: None

Assessment: Written assignments (40%) Group assignments (10%) 3-hour written examination (50%).

DP Requirement: None

Health Service Management
PBHL8HM H1
(25L-0T-0S-40H-5R-0F-12G-78A-13W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: This module is aimed at equipping learners with the theoretical and practical knowledge as well as the skills to formulate, implement monitor and evaluate strategies to ensure the most effective running of different health care settings, with especial emphasis on Strategic Planning, Operational Planning, Corporate and Clinical Governance, Human Resource Management, Total Quality Management and Operations and Risk Management.

Content: Strategic planning and management, Results based management, human resource management, Introduction to TQM, Concepts, definitions & principles of Quality in health care, Overview of TQM in Health Care Management, Corporate Governance, Clinical Governance, Fraud and Corporate Risk and Operations & supply strategy, Demand management & forecasting, Strategic capacity management, Service processes, Logistics and Inventory control

Practicals: None

Assessment: Written assignments (40%) Group assignments (10%) 3-hour written examination (50%).

DP Requirement: None

Health Systems and Policy
PBHL8HP H1
(20L-0T-0P-20S-120H-0R-0F-0G-0A-13W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: To provide learners with the skills to critically analyse health systems (in terms of the six building blocks of health systems - service delivery, health workforce, information, medicines, financing and governance), public health policies and health legislation (in terms of the processes of policy-making and implementation, including legislative processes).
Health Sciences

Content: Health systems - definition, key concepts and application; health systems research methods Public health policy and legislation – definition, key concepts and application; approaches to prospective and retrospective analysis; policy research; policy-making and implementation, including legislative processes
Practicals: None
Assessment: Written assignments (40%) Group assignments (10%) 3-hour written examination (50%)
DP Requirement: None

Maternal and Reproductive Health
PBHL8HR H1 H2
Prerequisite Modules: Health Measurement Descriptive
Corequisite: None
Aim: Enable master level students to analyse the national and global status of maternal and reproductive health; to identify public health strategies, programmes and policies to address key issues in protecting, promoting and ensuring maternal and reproductive health; and to identify priorities for further public health research
Content: Maternal and Reproductive Health as public health and human rights issues Frameworks for analysing the public health aspects of maternal and reproductive health Global, national and local burden of morbidity and mortality associated with maternal and reproductive health Challenges in the measurement of maternal and reproductive health Key public health issues in maternal and reproductive health Public health strategies for protecting, promoting and ensuring maternal and reproductive health at the global, national and local level Priorities for public health research in maternal and reproductive health
Practicals: None
Assessment: Individual written assessments – 30% Group Assignments – 20% 3-Hour written examination – 50%
DP Requirement: As per faculty rules.

Health Measurement (Descriptive)
PBHL8J1 MC
Prerequisite Requirement: None
Aim: To provide learners with skills to collect, analyse and use health information; to provide them with an understanding of the basic principles and methods of descriptive epidemiology, descriptive biostatistics and demography; and to demonstrate how these are applied in approaches to the planning and evaluation of public health interventions.
Assessment: Two group exercises (5%), two group assignments (5%), two individual assignments (40%), one 3-hour written examination (50%).
DP Requirement: None

Public Health Principles and Practice
PBHL8PP H1
Prerequisite Requirement: None
Corequisite: None
Aim: To provide learners with an understanding of public health and its practices and to understand health behaviour in order to scientifically promote positive health outcomes at an individual, organizational and population level and its application to research
Content: Definitions and history of public health, Health and disease; Social determinants of health, Essential public health functions, Academic literacy, models of explaining health behaviour and its determinants, models of health promotion, the development and role of health policy and legislation, practice frameworks of health promotion.
Practicals: None
Assessment: Individual exercises (5%), Discussion forums (5%) Written assignments (30%) Group assignments (10%) 3-hour written examination (50%)
DP Requirement: None
Research Methods and Bioethics  
PBHL8X1 MC  
Prerequisite Modules: PBHL8J1  
Aim: To provide learners with core epidemiological research, knowledge and skills that will enable them to perform, report on and evaluate research. To provide learners with basic principles and methods of research ethics and the application of the approaches to a masters-level research project.  
Content: How to write an epidemiological research protocol. Quantitative Research methodology: Research problem statement, study design, literature review, sampling & sample size consideration, plan of analysis, questionnaire development, implementation of research, data capture and analysis, qualitative research methods, manuscript writing, research funding  
Assessment: Two group assignments (10%), two individual assignments (20%), one three-hour written examination (50%).  
DP Requirement: None

Pharmacy

Introduction to Pharmacy  
PHRM102 W2  
Aim: The aim of the module is to provide first year Pharmacy students with an overview of the profession within the South African health care system, and to create a framework to integrate the various core areas of the profession.  
Content: Content will cover the South African Health Care system, within a legal framework, as well as medicine development and use.  
Practicals: 16 hours (4 x 4 hours) experiential learning/externships at designated sites  
Assessment: Continuous assessment: Quizzes = 40%; Reflective journal = 10%; Final exam = 50%  
DP Requirement: A student must obtain a CAM of ≥40%. The student must attend 100% of all externships

Pharmaceutical Chemistry 1  
PHRM141 W1  
Prerequisite Requirement: None  
Corequisite: None  
Aim: To provide students with a foundational background to Quantitative Chemistry, chemical reactions, electronic configuration and bonding, physical chemistry, and thermochemistry  
Content: Content will cover Quantitative Chemistry, chemical reactions, electronic configuration and bonding, physical chemistry, and thermochemistry.  
Practicals: This module will have 6 x 3 hours laboratory practical sessions  
Assessment: Formative: 60% of the tests + 40% of average of the Practical Reports. Summative: 1 x 2-hour paper. Final Exam = 50% Exam mark+50% of CAM. A 40% subminimum rule will apply.  
DP Requirement: A student must obtain a CAM of ≥40%; 100% attendance and submission of 100% of all practical reports.

Pharmaceutical Chemistry 2  
PHRM142 W2  
Prerequisite Requirement: PHRM141  
Prerequisite Modules: PHRM141  
Corequisite: None  
Aim: To introduce students to concepts in drug design, stereochemistry of drugs and drug targets, physicochemical properties of drugs, chemistry of functional classes and heterocyclic compounds that are important in medicinal compounds and pharmaceutically relevant biomolecules  
Content: The over all content of this module are: Review of historical and modern medicinal chemistry, Introduction to concepts of drug design, quantitative structure activity relationships (QSAR) and the three dimensional structure of drugs and drug targets, The physico-chemical properties of the functional classes and heterocyclic compounds that are
important in medicinal compounds with respect to their biological activities as well as to their in vitro and in vivo stabilities.

Properties and functions of pharmaceutically relevant biomolecules

**Practicals:** Four Tutorials, Six Lab based practical’s (identification of functional groups, synthesis of pharmaceutical intermediates)

**Assessment:** Formative: 70% of the two test marks + 30% of the average of the practical marks. Summative: 1 x 2-hour paper. Final Exam = 50% Exam mark + 50% of CAM. A 40% subminimum rule will apply.

**DP Requirement:** A student must obtain a CAM of ≥ 40%; 100% attendance and submission of 100% of all practical reports.

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**Design and Manufacturing of Medicines**

PHRM242 W2

**Prerequisite Requirement:** PHRM 245 Physicochemical Principles for Medicines with a 40% DP.

**Corequisite:** None

**Aim:** To provide students with knowledge and skills essential for the design, manufacture/compounding and evaluation of pharmaceutical dosage forms by integrating essential physicochemical and mathematical principles.

**Content:** Content will cover dosage form design principles, selection of formulation excipients, manufacturing techniques for and assessment of various pharmaceutical dosage forms.

**Practicals:** This module will have 10 x 3 hours laboratory practical sessions that involve small scale manufacturing and assessment of various dosage forms.

**Assessment:** Formative: 50% of the tests + 50% of average of practical reports and products. Summative: 1 x 2-hour paper. Final Mark = 60% Exam mark + 40% of CAM. A 40% subminimum rule will apply.

**DP Requirement:** A student must obtain a CAM of > 40%; 100% attendance and 100% submission of all practical reports.

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**Physico-Chemical Principles for Medicines**

PHRM245 W1

**Prerequisite Modules:** PHYS131, MATH150, PHRM141, PHRM142

**Corequisite:** None

**Aim:** To provide a physicochemical background (theoretical, quantitative and practical) to the formulation, manufacture/compounding and evaluation of pharmaceutical dosage forms/medicines.

**Content:** Content will cover mathematical, chemical and physical principles required for the compounding of and manufacture of medicines that are safe, stable of high quality and efficacious

**Practicals:** This module will have 8 x 3 hours laboratory practical sessions.

**Assessment:** Formative: 50% of the tests + 50% of average of practical reports. Summative: 1 x 2-hour paper. Final Mark = 60% Exam Mark + 40% of CAM. A 40% subminimum rule will apply.

**DP Requirement:** Formative assessment mark of ≥40%; 100% attendance and 100% submission of all practical reports.

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**Introduction to Biochemistry and Pharmacology**

PHRM246 W2

**Prerequisite Requirement:** Biol103, PHRM141, PHRM102, DP in ANAT101, DP in HPHS221

**Prerequisite Modules:** BIO103, PHRM141, PHRM102

**Corequisite:** None

**Aim:** The aim of this module is to provide students with an overview of normal biochemistry, as well as an understanding of the basic terms and principles of pharmacology with special reference to pharmacokinetics, pharmacodynamics, and the autonomic nervous system

**Content:** This module provides students with an overview of biochemistry, relevant to pharmacists, covering aspects of chemistry and metabolism of carbohydrates, lipids, amino acids and proteins; porphyrins, vitamins and co-factors; protein synthesis, nucleic acid; metabolic disorders and inborn errors of metabolism; selected clinical correlations; pharmacodynamics; pharmacokinetics; basic concepts of sympathetic and parasympathetic systems.

**Practicals:** None

**Assessment:** Formative assessment consisting of tests (40%) and online tutorials (60%). Summative: 1 x 2-hour paper. Final Mark = 50% Exam mark + 50% of CAM. A 40% subminimum rule will apply.
**DP Requirement:** Formative assessment mark of ≥ 40%

**Pharmaceutical Chemistry 3**  
PHRM251 W2  
**Prerequisite Requirement:** PHRM141 AND PHRM142  
**Corequisite:** None  
**Aim:** To introduce students to concepts of drug design, stereochemistry of drugs and drug targets, physicochemical properties of drugs, chemistry of functional classes, and heterocyclic compounds that are important in medicinal compounds and pharmaceutically relevant biomolecules.  
**Content:** Review of historical and modern medicinal chemistry, Introduction to concepts of drug design, quantitative structure activity relationships (QSAR) and the three dimensional structure of drugs and drug targets, The physicochemical properties of the functional classes and heterocyclic compounds that are important in medicinal compounds with respect to their biological activities as well as to their in vitro and in vivo stabilities. Properties and functions of pharmaceutically relevant biomolecules  
**Practicals:** Six Lab based practical's (18 hrs, identification of functional groups, synthesis of pharmaceutical intermediates)  
**Assessment:** Formative: 60% of the two test marks + 10% of the Tutorial marks + 30% of the average of the practical marks. Summative: 1 x 3-hour paper. Final Mark = 60% Exam mark + 40% of CAM. A 40% subminimum rule will apply.  
**DP Requirement:** Formative assessment mark of ≥40% and submission of 100% of all practical reports.

**Introduction to Pathology**  
PHRM252 W2  
**Prerequisite Requirement:** BIOL103, DP in ANAT101, DP in HPHS221  
**Prerequisite Modules:** BIOL103  
**Corequisite:** None  
**Aim:** To introduce students to understanding of pathophysiological principles and integrated knowledge incorporating microbiology, biochemistry and public health so as to be able to understand diagnoses, laboratory results and other clinical jargon in order to apply the initiation and/or modification of therapy and provision of pharmaceutical care.  
**Content:** Application of the process of history taking, examination of a patient, major patho logical processes in man: inflammation, degeneration; neoplasia; inherited pathologies; pathological basis and symptomatology of common conditions in the major systems: cardiovascular, renal, respiratory, gastro-intestinal and liver, central nervous system, musculo-skeletal and connective tissue, and endocrine.  
**Practicals:** This module will have 3 x 5 hour practical sessions in the clinical skills, and 12 x 5 hour clinical based learning in hospital wards environment.  
**Assessment:** Formative: 70% of the 2 test marks + 30% of the average of the practical sessions and ward rounds/visits. Summative: 1 x 2-hour paper. Final Mark = 60% Exam mark + 40% of CAM. A 40% subminimum rule will apply.  
**DP Requirement:** Formative assessment mark of ≥40% . 100% attendance of externship/field trip and a reflective journal of the experiential learning required.

**Pharmacology II**  
PHRM301 W1  
**Prerequisite Requirement:** PHRM246  
**Prerequisite Modules:** PHRM246  
**Aim:** To provide learners with a basic understanding on the pharmacology of drugs affecting mediators of inflammation and pain; clinical pharmacological concepts used in the diagnosis, prevention, rational treatment and management of certain Central Nervous System (CNS) disorders  
**Content:** Central Nervous System (CNS) pharmacology with specific reference to neurodegenerative disorders (Parkinson’s and Alzheimer’s diseases), antipsychotic drug therapy, affective disorders, management of epilepsy, and treatment of headache and migraine. Autocoid pharmacology, with special reference to histamine, serotonin, prostaglandins, leukotrienes, thromboxanes, kinins and vasoactive peptides. Treatment of pain, gout and other inflammatory conditions with specific reference to non-steroidal anti-inflammatory drugs (NSAIDs), opioids, alcohols, general and local anaesthetics. Immunopharmacology.
Assessment: Formative: 70% of the average of 2 tests + 30% of Moodle assignments. Summative: 1 x 2-hour paper. Final Mark = 60% of Examination Mark + 40% of CAM. A 40% subminimum rule will apply.

DP Requirement: Formative assessment mark of ≥40%

Pharmacology III
PHRM302 W2
(48L-36T-0P-44H-30R-0F-0G-2A-13W-16C)
Prerequisite Requirement: PHRM246
Prerequisite Modules: PHRM246
Corequisite: Dp in PHRM301
Aim: To provide learners with an understanding of basic principles of chemotherapy, i.e., the mechanisms by which anti-infective drugs act in the management and treatment of infectious diseases. Therapeutic Drug Monitoring (TDM) will enable learners to understand the concepts of pharmacogenomics and pharmacokinetics of various drug classes, thus enabling them to easily interpret drug-blood levels which are valuable during the implementation of dosage adjustments. Toxicology will enable learners to understand and address toxic chemicals and basic drug overdosage scenarios. Clinical biochemistry will provide learners with a basic background to interpret and understand pathological laboratory results.

Content: The pharmacology of antimicrobial agents, with specific reference to antibacterial, antifungal and antiviral drugs. TDM, toxicology and clinical biochemistry.

Assessment: Formative: 70% of average of 2 tests + 30% average of Moodle assignments. Summative: 1 x 2-hour paper. Final Mark = 60% Exam Mark + 40%CAM. A 40% subminimum rule will apply.

DP Requirement: Formative assessment mark of ≥40%.

Medicinal Chemistry 3
PHRM311 W1
(35L-5T-30P-57H-30R-0F-0G-3A-13W-16C)
Prerequisite Requirement: PHRM245W1, PHRM251W2
Prerequisite Modules: PHRM245, PHRM251
Aim: To provide an understanding of the design and development of drugs.

Content: Development of enzyme inhibitors as drugs, antiviral drugs, biotechnology, principles of drug design and discovery, drug development and clinical trials

Practicals: 10 x approximately 3 hour practicals. The practical will take the format of miniprojects entailing literature studies and computational chemistry. All students are required to submit individual practical reports though they work in groups in the laboratory.

Assessment: Formative: 70% of the average of 2 tests + 30% of the practical mark. Summative: 1 x 2-hour paper. Final mark = 60% of exam mark + 40% of CAM. A 40% subminimum rule will apply

DP Requirement: A student must obtain a CAM of ≥40% and 100% attendance and submission of all required practical reports.

Institutional Pharmaceutics
PHRM321 W1
(43L-0T-36P-0S-37H-40R-0F-0G-4A-15W-16C)
Aim: To train students in pharmaceutical aspects pertinent to institutional/hospital Pharmacy practice with special emphasis on sterilization, disinfection & infection control.

Content: Microbial structure, nutritional requirements, and, microbial growth, metabolism & death relevant to sterilization (heat, filtration, radiation, gaseous), disinfection & infection control in hospital/institutional pharmacy practice, the preservation of pharmaceutical products, antimicrobial chemotherapy, and, the evolution, genetics & mechanisms of resistance to antimicrobial agents & procedures. Pertinent pathology & immunology are covered as are microorganisms of clinical & pharmaceutical relevance.

Practicals: 12 (Practical reports form part of the formative assessment)

Assessment: Formative: 70% of the average of 2 tests + 30% of the practical marks. Summative: 1 x 2-hour paper. Final mark = 60% of the exam mark + 40% of CAM. A 40% subminimum rule will apply.

DP Requirement: Formative assessment mark of ≥40%; 100% attendance and submission of 100% of all required practical reports.
General and Ocular Pharmacology
PHRM344 W2 (42L-0T-0P-0S-14H-22R-0F-0G-2A-14W-8C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** To provide learners with the relevant pharmacological knowledge which would aid in the diagnosis and management of ocular conditions.
**Content:** An introduction to pharmacokinetics and pharmacodynamics, autonomic pharmacology and agonists and antagonists of this system. Special topics of interest to optometry such as miotics, mydriatics and cycloplegics, glaucoma, allergy and antihistamines, inflammation and anti-inflammatory agents, chemotherapeutic agents, drug-induced ocular diseases and diagnostic agents. Other topics as they become relevant to the profession.
**Practicals:** None
**Assessment:** Formative: Average of 2 tests. Summative: 1 x 2-hour paper. Final mark = 50% of the CAM and 50% of the examination mark. A 40% subminimum rule will apply.
**DP Requirement:** 40%

Pharmaceutical Care
PHRM351 W2 (42L-2T-4P-0S-31H-36R-40F-0G-5A-13W-16C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** To provide students with relevant knowledge and skills to ensure optimal pharmaceutical care for the patient, apply a pharmaceutical care management approach to ensure rational medicine use; and to initiate and/or modify therapy, where appropriate in patients with selected body systems for pharmacotherapeutic management (non-drug and drug related).
**Content:** Pharmaceutical care and its application for all conditions; professional and patient communication; Pharmacist Initiated Therapy and referral on conditions affecting specific body systems in terms of Good Pharmacy Practice and within the Pharmacy Act and Regulations.
**Practicals:** 2 x 2hr practical counselling sessions
**Assessment:** Formative assessment consists of 2 x 1 hr tests (50%), tutorials (10%), externship assessment (20%) and practicals (20%). Summative: 1 X 2 hour paper. Final mark = 60% of the exam mark + 40% of CAM. A 40% subminimum rule will apply.
**DP Requirement:** A student must obtain a CAM of ≥40%; 100% attendance for the full duration of all externships, practicals and tutorial classes.

Pharmaceutical Logistics, Economics and Mngnt
PHRM352 W2 (40L-0T-10P-0S-36H-35R-0F-0G-20A-15W-16C)
**Prerequisite Requirement:** None
**Corequisite:** None
**Aim:** To provide the student with basic principles of drug supply management, as well as knowledge of financial, operational, pharmacoeconomic principles, human resources and quality management in the pharmacy environment.
**Content:** Health and health care systems, national drug policy, essential drug policy, drug management cycle, estimating drug requirements, pricing, procurement and storage, rational drug use, marketing environment, demand and supply, human resources, financial concepts, pharmacoeconomic principles, and roles of the pharmacist.
**Practicals:** This module will have 2 x 5 hour practical sessions in the clinical skills laboratory and 12 x 5 hour fieldwork based experiential learning in to both community pharmacies and public institutional pharmacies (hospitals, medicines supply depots).
**Assessment:** Formative: 70% of 2 tests+ 30% of externship assessment. Summative: 1 x 3 hour paper. Final mark = 60% of the exam mark + 40% of CAM. A 40% subminimum rule will apply.
**DP Requirement:** A student must obtain a CAM of ≥40%. 100% attendance of externship/field trip.

Pharmaceutical Analysis
PHRM353 W1 (45L-0T-24P-0S-36H-35R-0F-0G-20A-15W-16C)
**Prerequisite Modules:** PHRM141,PHRM142
**Corequisite:** None
Aim: To provide knowledge and skills required by a pharmacist in a pharmaceutical industrial and regulatory environment; This module relates basic theory to techniques that determine the control of quality of analytical methods used in the manufacturing of various dosage forms in accordance with standards and requirements of the official compendia.

Content: This module covers details that determine the control of quality of analytical methods, various analytical techniques and instrumentation used in the manufacturing of various dosage forms in accordance with standards and requirements of the official compendia, using prescribed analytical methods. Analyses include volumetry, polarimetry, refractometry, spectroscopy and chromatography. The quality assurance include quality control of pharmaceutical products including microbial control; GMP.GCP.GDP, GWP.GPP, GLP including SOPS/Site Master file.

Practicals: This module will have 8 x 3 hour laboratory practical sessions that involve assays of dosage forms, using traditional as well as advanced techniques/instrumentation.

Assessment: Formative: 70 % of tests + 30 % of practical marks. Summative: 1 x 2 hour paper. Final mark = 60 % of exam mark + 40 % of CAM. A 40% subminimum rule will apply.

DP Requirement: A student must obtain a CAM of ≥40% and submission of 100% of all required practical reports.

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Health Law and Ethics

PHRM355 W1

(42L-12T-12P-5S-50H-32R-0F-0G-7A-15W-16C)

Prerequisite Requirement: None

Corequisite: None

Aim: To introduce students to biomedical ethics and the laws governing the practice of Pharmacy, including but not limited to the Pharmacy, Medicines Substances and National Health Act, including other acts such as the Labour Relations Act, the Basic Conditions of Employment Act, Hazardous Substances, Act, the Liquor Act, the Medical Schemes, Foods and Cosmetics Act, the Nursing and Health Professions Act.


Practicals: 3 x 4 hour Fieldtrip visits to Pharmacies

Assessment: Formative: 60% of tests, 20% of tutorial assessments and 20% of assignments on fieldtrips. Summative: 1 x 3 hour paper. Final mark = 60 % of exam mark + 40 % of CAM. A 40% subminimum rule will apply.

DP Requirement: CAM of >40%. 100% Attendance at all fieldtrips and seminar.

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Pharmacology IV

PHRM401 W1

(48L-0T-0P-39S-16H-11R-44F-0G-2A-15W-16C)

Prerequisite Requirement: PHRM246

Prerequisite Modules: PHRM246

Aim: To provide learners with clinical pharmacological concepts used in the diagnosis, prevention, rational treatment and management of certain systemic diseases.

Content: Treatment and/or management of the following pathological disorders: GIT: Peptic ulcer disease, Gastro-Oesophageal Reflux Disease (GORD), Inflammatory Bowel Disease (IBD), Irritable Bowel Syndrome (IBS), diarrhoea, constipation, hepato-biliary diseases, nausea and vomiting, Respiratory System: Bronchial asthma, Chronic Obstructive Pulmonary Disease (COPD) and other respiratory disorders, including cough, pneumonia, congestion, rhinitis. Endocrine System: Growth hormone, anti-diuretic hormone, osteoporosis, infertility (gonadal hormones, contraception, erectile dysfunction, hormone replacement therapy), hormones of the thyroid gland (hypothyroidism and hyperthyroidism), adrenocorticosteroid hormones (glucocorticoids and mineralocorticoids). Endocrine System: Hormones of the pituitary and thyroid glands (growth hormones, gonadotropins and osteoporosis, hypothyroidism. Anti-protozoals and Anthelmintics: Anti-infective drugs for malaria, amoebiasis, intestinal helminths, trypanosomiasis, schistosomiasis.

Assessment: Formative assessments should include 60% of an average of 2 tests plus 40% of Wardround presentations. Summative assessment: 1 X 3 hr paper. Final Mark: 60% of the Examination Mark + 40% of CAM. A 40% subminimum rule will apply.

DP Requirement: Formative assessment mark >40%. 100% Attendance of all clinical hospital visits. 100% submission of SOAPE notes. 100% Attendance of ward-round presentations.
Pharmacology V
PHRM402 W2 (48L-0T-0P-39S-16H-11R-44F-0G-2A-15W-16C)
Prerequisite Requirement: PHRM246
Prerequisite Modules: PHRM246
Corequisite: PHRM401
Aim: To provide learners with clinical pharmacological concepts used in the diagnosis, prevention, rational treatment and management of certain systemic diseases.
Content: Treatment and/or management of the following pathological disorders: Cardiovascular system: Myocardial infarction (MI), congestive heart failure (CHF), renin-angiotensin system and hypertension, cardiac arrhythmias, angina pectoris, blood disorders (thrombosis, haemophilia and anaemia). Vitamins and vitamin supplements. Diabetes mellitus: Hyperlipidaemia, diuresis, insulin and regulation of blood glucose, obesity. Principles of cancer chemotherapy, cancer cell cycle kinetics, anti-metabolites, alkylating agents, antibiotics, microtubule inhibitors, steroid hormone antagonists, monoclonal antibodies, blood disorders.
Assessment: Formative assessments should include 60% of an average of 2 tests plus 40% of Wardround presentations. Summative assessment: 1x3 hr paper (50%) and oral exam (50%). Final Mark: 60% of the Examination Mark + 40% of CAM. A 40% subminimum rule will apply in each component.
DP Requirement: Formative assessment mark of ≥ 40%. 100% Attendance of all clinical hospital visits. 100% submission of SOAPE notes. 100% Attendance of ward-round presentations.

Biopharmaceutics
PHRM421 W1 (35L-30T-0S-58H-35R-0F-0G-2A-13W-16C)
Prerequisite Requirement: PHRM245, PHRM242
Prerequisite Modules: PHRM245, PHRM242
Aim: To provide an understanding of principles involved in drug development and research and the influence of formulation on the availability of drugs.
Content: Relevant Pharmacokinetics including Drug absorption and disposition, Dissolution, Bioavailability/Bioequivalence, Pharmaceutical statistics, Factorial Designs, Products of Biotechnology, Medicines Registration. Tutorials: 10 x 3 Hours of tutorials, including tutorial spot tests. Assignment Presentations: Submission and presentation of assignments form part of the formative assessment.
Assessment: Formative: 70% of the average of all tests (including tutorial spot tests) + 30% of Assignment Mark. Summative: 1 x 3 hour paper. Final mark = 60% of the exam + 40% of formative assessment. A 40% subminimum rule will apply.
DP Requirement: Formative Assessment mark of ≥40% + 100% tutorial attendance + submission of all assignments and presentations.

Pharmacy Research Project
PHRM440 WY (0L-0T-52S-132H-45R-0F-0G-91A-27W-32C)
Prerequisite Requirement: All level 1 – 3 modules in the BPharm programme
Corequisite: All level 4 modules
Aim: To provide knowledge and skills relevant to conducting research, especially for entry to higher degree courses; to develop an advanced level of knowledge in the area of specialisation; to further develop verbal and written skills relevant to advanced studies.
Content: The guided / supervised research process involves the formulation of a research question (related to one of the majors in the Pharmacy programme), literature review, the development of a research proposal, application for ethical clearance, application for funding, the research process using approved methodologies, the analysis of results and the culmination of the process in the form of a protocol and paper which includes an appropriate and relevant literature review, description of methodologies employed, analyses and discussion of results, conclusion and recommendations (where applicable).
Practicals: Depending on the research methodology employed, students may have to do laboratory research, or fieldtrips for data collection.
Assessment: Continuous assessment: Protocol (10%) + Article (30%) + Research day presentation (10%) + Oral exam (25%) + Continuous assessment (25%). A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester.
DP Requirement: None as this is continuous assessment.
Advanced Pharmaceutics
PHRM452 W2 (35L-24T-12P-6S-45H-26R-0F-0G-12A-15W-16C)
Prerequisite Requirement: PHRM102, PHRM245, PHRM242, PHRM321
Prerequisite Modules: PHRM102, PHRM245, PHRM242, PHRM321
Aim: To train students in the formulation and preparation of sterile pharmaceutical dosage forms, and provide a background to the formulation and design of modified release dosage forms and novel drug delivery systems.
Content: Aseptic technique, sterility testing, intravenous therapy, formulation of injections, ophthalmic products, radiopharmaceuticals, cytotoxics, immunological products and blood products, polymers and polymer science, modified release dosage forms including oral, transdermal, female specific, parenteral and ophthalmic controlled release dosage forms, relevant advances in drug delivery systems including drug targeting, nano-formulations, protein/ tissue engineering and gene delivery.
Practicals: 4 x 3 hours of practical sessions (Practical reports form part of the formative assessment) Seminars: 6 Hours of Seminar presentations (Seminar reports form part of the formative assessment) Tutorials: 8 x 3 Hours of tutorials, including tutorial spot tests
Assessment: Formative: 70% of the average of two tests + 30% of average of practical and seminar reports Summative: 1 x 3-hour paper. Final Mark = 60% Exam Mark + 40% of CAM. A 40% subminimum rule will apply.
DP Requirement: A student must obtain a CAM of > 40% + 100% attendance + submission of 100% of all required practical reports and seminar reports.

Applied Pharmaceutical Care
PHRM453 W1 (42L-8T-10P-0S-10H-20R-55F-0G-15A-15W-16C)
Prerequisite Requirement: PHRM351
Corequisite: None
Aim: To equip students to be able to provide responsible drug therapy in order to obtain optimal therapeutic outcomes by assessing drug related problems and managing patients accordingly. To train students in calculations pertinent to clinical pharmacy practice.
Practicals: 5 x 3hr Practical sessions in the clinical skills lab and 8 x 5hrs field placement in hospital wards environment (externships).
Assessment: Formative assessment: 50% of tests, 10% of tutorials, 20% of practicals and 20% externship reports. Summative: 1 x 3-hour paper. Final Mark = 60% Exam Mark + 40% of CAM. A 40% subminimum rule will apply.
DP Requirement: A student must obtain a CAM of ≥40%. 100% attendance for the full duration of all externships (fieldwork), practicals and tutorial classes.

Natural Products and Evidence based medicines
PHRM454 W2 (42L-0T-18P-0S-10H-10R-65F-0G-15A-15W-16C)
Prerequisite Requirement: PHRM311 AND PHRM351
Corequisite: PHRM452
Aim: To provide an understanding of structure-activity relationship and drug design in drugs developed for specific biological targets with main focus on drugs from natural sources. To provide students with a basic understanding of evidence based practice in decision making and pharmaco-vigilance activities in pharmaceutical care including HIV management, Traditional, Veterinary, Complementary and Alternative Medicines in pharmacy.
Content: -Evidence based decision making, pharmacovigilance activities and role of pharmacists, role of natural products chemistry in the development of new drugs, structure-activity relationship. Classes of drugs from natural source: anti-inflammatory, antibacterial and antifungal drugs, Narcotic analgesics, and anti HIV. -Management of disease with traditional, complementary and alternative medicines
Practicals: 6x approximately 3 hour practical. The practical will take the form of mini-projects entailing literature studies and computational QSAR and experimental reports. All students will be required to submit lab reports. 13 x 5 hours externship to veterinary pharmacy, traditional healers, manufacturing plants for complementary medicines.
Assessment: Formative: 60% of the average 2 tests + 30% of the practical mark and 5% reflective journal of experiential learning and 5% OSCE. Summative: 1 x 3-hour written paper and OSCE. Final mark = 60% of exam mark + 40% formative assessment. A 40% subminimum rule will apply in each component.

DP Requirement: A student must obtain a CAM of ≥ 40%. 100% attendance to practicals, externships and field trips.

Research Project
PHRM811 WB

Prerequisite Requirement: All modulework must have been successfully completed.

Aim: Researching and writing a dissertation will enable the student to consolidate and apply the skills and knowledge gained in earlier postgraduate study. The student will undertake a substantial piece of independent research on a topic chosen in consultation with his/her supervisor. The project gives students the opportunity to obtain, develop and demonstrate research skills in Health Sciences.

Content: This is compulsory module in the postgraduate Health Sciences Masters programmes. It builds on the research training the student will have gained in the earlier Masters modules. In this module the student needs to undertake a substantial piece of independent research on a chosen topic, which will require him/her to collect and analyse data (understood in a wide sense, including text as data), using a primary methodology

Assessment: Assessment will be conducted in such a way as to adhere to adult learning principles. This means that content and learning demonstrate relevance, problem solving, learning by doing, a strong element of self-direction and ownership, are based on the learner’s experience, and have clear goals. This module will have a summative assessment using project reports, and a final submission as a scientific journal article

DP Requirement: A scientifically acceptable and ethically approved research proposal.

Application of Pharmacoeconomic Concepts
PHRM8PC

Corequisite: PHRM8PP

Aim: This module provides students with practical experience in the preparation of economic evaluation of pharmaceuticals. It allows students to gain practical experience in the development of economic evaluations of pharmaceuticals. Topics covered include assessment of effectiveness data, costs, quality of life assessment and the development of economic models of cost effectiveness.

Content: The module content includes an evaluation of the humanistic impact of drug therapy on quality-of-life outcomes, and use of sensitivity analyses in increasing the external validity of PE studies. Students will read and evaluate different types of PE studies published in the scientific literature. Student teams will be responsible for reading and analyzing selected PE literature and writing a comprehensive evaluation of each article using their knowledge of research methods, biostatistics and pharmacoeconomics.

Assessment: Module grades are based on multiple response questions, examinations, case study answers, assignments, and contributions to small learning groups in the weighting indicated below.Participation: 10%; 2 Quiz: 20%; Problem Set 1: 10%; Problem Set 2: 10%; Final Assignment: 20%; Final Exam: 30%

DP Requirement: Continuous assessment

Intro to Pharmacoeconomic Principles
PHRM8PP

Aim: This module provides students with practical experience in the preparation of economic evaluation of medicines. It allows students to gain practical experience in the development of economic evaluations of medicines. Topics covered include assessment of effectiveness data, costs, quality of life assessment and the development of economic models of cost effectiveness.

Content: Examines methods and uses of pharmacoeconomic analyses (and other economic evaluations of medical technologies) in health care. Pharmacoeconomics is the application of economic evaluation (i.e., cost analysis, cost-effectiveness, cost-benefit analysis, etc.) to pharmaceutical therapies. The module focuses on case studies in different disease areas, which serve to highlight key methodological and strategic issues in the field. The module also features lectures on the pharmaceutical industry; MCC approval and the regulatory process; and coverage, reimbursement and pricing issues in the South Africa and abroad.
Assessment: Module grades are based on multiple response questions, examinations, case study answers, assignments, and contributions to small learning groups in the weighting indicated below: Participation: 10%; 2 Quiz: 20%; Problem Set 1: 10%; Problem Set 2: 10%; Final Assignment: 20%; Final Exam: 30%

**DP Requirement:** Continuous assessment

**Clinical Service Development & Evaluation**

PHRM8PR

Aim: The module aims to enable students to acquire the cognitive, interpersonal, psychomotor and analytical skills necessary for competent, reflective practice and life long professional development for their working life. The study of Clinical Service Development and Evaluation will provide subject specific knowledge and skills as well as key transferable skills to enable pharmacists to make an effective contribution to patient care and to enhance their career. The rationale behind this strategy is to develop and foster independence in analysis and problem solving, providing students with the confidence to seek practical solutions to problems set. In addition students will have the opportunity to develop research skills.

Content: Application of public health related topics to service development including health needs assessment, clinical governance and evidence based practice in a chosen specialist area. Content is directed toward strategies for evaluating and improving the quality of patient care on the basis of the development, implementation and evaluation of innovative instructional methodologies to enhance pharmacists’ abilities to provide pharmaceutical care.

Assessment: Module grades are based on multiple response questions, examinations, case study answers, assignments, and contributions to small learning groups in the weighting indicated below: Participation: 10%; 6 Case studies 30%; Final Assignment: 50%

**DP Requirement:** Continuous assessment

**Rational Drug Use**

PHRM8PT

Aim: This module provides a general understanding of the factors involved in the safe, effective and economic use of medicines for therapeutic purposes. It concentrates on aspects of importance for pharmacists undertaking clinical duties in community and hospital settings, so that they are competent to analyse and critically evaluate drug therapies in order to recommend appropriate action for the therapeutic management of a patient.

Content: This module examines aspects of clinical laboratory data, monitoring patient signs and symptoms and issues in rational drug use monitoring. Topics in general medicine are covered as part of cases/examples Assessment: Module grades are based on multiple response questions, examinations, case study answers, assignments, and contributions to small learning groups in the weighting indicated below: Participation in 5 case studies: 20%; 3 Quiz: 30%; Final Assignment: 50%

Assessment: Module grades are based on multiple response questions, examinations, case study answers, assignments, and contributions to small learning groups in the weighting indicated below: Participation in 5 case studies: 20%; 3 Quiz: 30%; Final Assignment: 50%

**DP Requirement:** Continuous assessment

**Physiotherapy**

**Electrotherapy for Physiotherapy**

PHTH142 W2

Prerequisite Modules: Introduction to Physiotherapy Science, ANAT101, ANAT109, ANAT102 and ANAT104

Corequisite: None

Aim: To develop students’ electrotherapy skills in the application of low, medium and high frequency currents. Student should be able to apply these skills in their physiotherapy clinical practice.

Content: Theory of application, therapeutic effects, indications and contra-indications of Ultrasound, Faradic current, Interrupted direct current, Direct current, UVR, TENS, Interferential, Laser and Shortwave diathermy.

Practicals: 42 hours of practical teaching using equipment and case scenarios within the classroom teaching. The laboratory will be used as the practical environment for learning.
Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (50%) 1 Practical assessment (OSPE) (50%) Summative 1 Theory examination (50%) 1 Practical examination (OSPE) (50%)

DP Requirement: Formative Assessment mark of 40%

Introduction to Physiotherapy Science

PHTH145 W1 (70L-0T-40P-0S-10H-20R-0F-10G-10A-15W-16C)

Prerequisite Modules: ANAT101, ANAT109, PHYS131, PHYS132, BIOL103

Corequisite: None

Aim: To introduce students to basic anatomical structures and assessment techniques related to human movement. To provide students with basic knowledge and skills in first aid and nursing, as well as treating patients living with HIV and disability. The module also introduces students to ethics for physiotherapy practice and research

Content: Anatomical terminology. Introduction to the musculoskeletal system (muscles/bones/joints). Surface anatomy. Methods of measurement of joint range & muscle strength testing, physical principles of movement, kinetic handling including starting positions & group therapy. HIV/AIDS pathology and rehabilitation. Nursing - first aid, nursing skills, CPR, infection control, bandaging and splinting. Ethics in physiotherapy - principles of Batho Pele, the rights of a patient, confidentiality, the Bill of Rights.

Practicals: 40 hours of practicals using skills taught in classroom structure with case scenarios

Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (25%) 2 Practical assessments (OSPE) (50%) 1 Group assessment (25%) Summative: 1 Theory examination (50%) 1 Practical examination (OSPE) (50%)

DP Requirement: Formative Assessment mark of 40%

Kinesiology for Physiotherapy

PHTH241 W1 (70L-6T-30P-6S-12H-18R-0F-12G-6A-15W-16C)

Prerequisite Modules: INTRODUCTION TO PHYSIOTHERAPY SCIENCE

Corequisite: None

Aim: Kinesiology is the study of the principles of mechanics and anatomy in relation to human movement. To introduce students to joint mobilization, strengthening techniques and exercise therapy.


Practicals: 30 Hours of practicals within classroom teaching using case scenarios

Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (40%) 1 Practical Assessment (OSPE) (30%) 1 Group Assessment (30%) Summative: 1 Theory Examination (50%) 1 Practical examination (OSPE) (50%)

DP Requirement: Formative Assessment mark of 40%

Massage and Manipulation

PHTH242 W1 (70L-8T-40P-8S-8H-20R-0F-8G-6A-15W-16C)

Prerequisite Modules: Introduction to Physiotherapy Science

Corequisite: None

Aim: To introduce students to massage techniques and general sequences of massage to the upper & lower limb, back & neck. The student is introduced to relaxed passive movements & techniques of relaxation. Student will be introduced to a sequence of massage to specific neuromuscular conditions, specific manipulations used in chest physiotherapy, respiratory conditions & breathing exercises.

Content: Definition of massage, classification & indications. Application of a general sequence of massage to the upper limbs, lower limbs and back. Theory of passive movements. General sequence of passive movements to the upper limbs and lower limbs. Local and general relaxation techniques. Specific sequence of massage for the following conditions: Bell’s palsy, bowel incompetence, stress/insomnia, adherent scar, haematoma, indolent ulcer, chronic oedema of upper and lower limb and to introduce students to specific manipulations used in chest physiotherapy, respiratory conditions & breathing exercises
Practicals: 40 Hours of practicals within classroom teaching using case scenarios
Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (50%) 1 Practical assessment (OSPE) (50%) Summative: 1 Theory examination (50%) 1 Practical examination (OSPE) (50%)
DP Requirement: Formative Assessment mark of 40%

Neurology and Community Rehabilitation
PHTH243 W2
Prerequisite Modules: Introduction to Physiotherapy Science
Corequisite: None
Aim: To introduce students to the neurological basis for motor development, paediatric conditions and to the principles of primary health care and community health rehabilitation
Content: Introduction to child development, motor development from first trimesters and in first year, normal postural mechanism, practical facilitation in the trimesters. Introduction to terminology in community health such as community, development, impairment, disability, rehabilitation, handicap. Principles of Rehabilitation: models, consumers of rehabilitation services and policies. Process of Rehabilitation: disability prevention, identification and management Physiotherapy as part of community-based rehabilitation: levels of service provision, indications for intervention, intervention strategies, skills transfer, administrative and ethical issues.
Practicals: 14 hours of fieldwork will be incorporated into this module. Fieldwork-venues: William Clark Garden orphanage home: Normal development and HIV infected Babies, Sparks Estate Cheshire Home: Reflexes and deviation from normal. Reunion School: Importance of early intervention and introduction to Cerebral Palsy. 18 hours of practicals will from part of the classroom teaching using case scenarios.
Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (40%) 1 Practical Assessment (OSPE) (30%) 1 community project Assessment (30%) Summative: 1 Theory Examination (50%) 1 Practical examination (OSPE) (50%) DP Requirement: Formative Assessment mark of 40%.

Principles of Physiotherapy Practice - L3
PHTH341 W1
Prerequisite Modules: ANAT102W2, ANAT104W2, ANAT109W1, HPHS221, HPHS222
Corequisite: None
Aim: The student will be equipped with the key knowledge and skills pertaining to physiotherapy management of a variety of paediatric and adult neurological conditions at all rehabilitation outcome levels. To provide students with a theoretical and practical framework in the specific conditions/fields as described below
Content: Review of the pathology of rheumatologic conditions (RA, OA, SLE, JCA); Pulmonary conditions; General surgery as in burns; Gerontology; Obstetrics and Gynaecology (Ante-natal, perinatal and post natal and Gynaecological conditions). Application of the principles of Physiotherapy assessment, treatment and rehabilitation associated with these conditions. Neurology: Principles of physiotherapy assessments, treatment and rehabilitation for patients with disorders of the peripheral and central nervous systems, both medical and surgical in, adults and children. Hypertonus, hypotonus, cerebellar ataxia, CVA ,head injuries, Spinal cord injuries, Guillian Barre Syndrome, Parkinsons disease, Multiple Sclerosis, Hydrocephalus, peripheral Nerve injuries, HIV related conditions.
Practicals: 20 hours of practicals will form part of the module as classroom teaching using case scenarios.
Assessment: Formative 40% + Summative 60% = Final mark Formative: 1 Theory test (40%) 1 Practical Assessment (OSPE) (40%) 1 group assignment (20%) Summative 1Theory examination (50%) 1 Practical assessment (OSPE) (50%)
DP Requirement: Formative Assessment mark of 40%

Neuromusculoskeletal Physiotherapy
PHTH342 WY
Prerequisite Modules: Introduction to Physiotherapy Science, ANAT109, ANAT102, ANAT104, HPHS221, HPHS222
Corequisite: None
Aim: The module provides students with a theoretical and practical framework of neuromusculoskeletal conditions. It covers the pathology, assessment and treatment of neuromusculoskeletal dysfunction of the upper and lower limbs using assessment and treatment techniques based on Maitland, Butler, Cyriax and McConnell.
**Content:** Aetiology and grading of neuromusculoskeletal injuries. 4.2. Principles of treatment of neuromusculoskeletal injuries. 4.3. Principles of physiotherapy management of fractures, dislocations, arthroplasties, and common soft tissue injuries. 4.4. Introduction to vertebral and peripheral syndromes. 4.5. Introduction to the Maitland and Mulligan concepts. 4.6. Subjective and objective examination of the glenohumeral, elbow, wrist, hip, knee and ankle joints and introduction to neuropathic pain and clinical reasoning. 4.7. Accessory and passive physiological movements for the glenohumeral, elbow, wrist, hip, knee and ankle joints (Maitland and other techniques) and 4.8. Selection and principles of application of selected passive accessory movements

**Practicals:** 60 hours of practical teaching using clinical scenarios and case studies within the classroom

**Assessment:** Formative 40% + 60% summative = Total mark Formative: 1 Theory tests (35%) 1 Practical assessment (OSPE) (35%) 1 Group assessments (30%) Summative: 1 Theory examination (50%) 1 Practical examination (OSPE) (50%)

**DP Requirement:** Formative Assessment mark of 40%

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**Physiotherapy Clinical Practice, (Cardiopulm)**

PHTH343 WY

**Prerequisite Modules:** ANAT101, ANAT109, ANAT102, ANAT104, HPHS221, HPHS222, PHTH142, PHTH145, PHTH241, PHTH242, PHTH243

**Aim:** To promote Physiotherapy clinical problem solving and organizational skills in Cardiopulmonary, Surgery, Paediatrics, Orthopaedics, Obstetrics and Gynaecological conditions. Students should be able to apply these skills in their Physiotherapy clinical practice.

**Content:** Pathology and Clinical practice in patients with Cardio-pulmonary, Surgery, Paediatrics, Orthopaedics, Obstetrics and Gynaecological conditions.

**Assessment:** Final Mark: Formative assessment (40%) + Summative assessment (60%). Formative: 2 clinical examinations (50% each) Summative: One clinical examination (100%) – externally moderated A subminimum of 40% will apply in each exam component

**DP Requirement:** Completion of mandatory clinical hours. Formative assessment mark of ≥ 40%

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**Physiotherapy Clinical Practice (Neurological)**

PHTH345 WY

**Prerequisite Modules:** ANAT101, ANAT109, ANAT102, ANAT104, HPHS221, HPHS222, PHTH142, PHTH145, PHTH241, PHTH242, PHTH243

**Aim:** To promote Physiotherapy problem solving clinical and organizational skills in Neurological conditions and Community Physiotherapy. Students must be able to apply these skills in their Physiotherapy clinical practice.

**Content:** Clinical practice in Neurology and Community Physiotherapy

**Assessment:** Formative 50% + Summative 50% = Final mark Formative: 2 clinical examinations (50% each) Summative: One clinical examination (100%) – externally moderated A subminimum of 40% will apply to each component of the exam

**DP Requirement:** Completion of mandatory clinical hours. Formative assessment mark of ≥ 40%

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**Physiotherapy Clinical Practice A**

PHTH400 WY

**Prerequisite Modules:** PHTH343, PHTH345

**Aim:** This module develops students’ skills in evaluating individuals, situations or a community in the context of the health system and their application of appropriate intervention skills in a curative, rehabilitative, preventative and promotive manner

**Content:** Supervised clinical practice with emphasis on cardiopulmonary and orthopaedic conditions

**Assessment:** Final Mark: Formative assessment (60%) + Summative assessment (40%). Formative: Two clinical examination marks of 35% each and two clinical competency marks of 15% each. Summative: One clinical examination (100%)– externally moderated A subminimum of 40% will apply to each component in the final exam

**DP Requirement:** Completion of mandatory clinical hours. Formative assessment mark of ≥ 40%

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**Principles of Physiotherapy**

PHTH401 WY

**Prerequisite Modules:** PHTH326, PHTH327, PHTH324, PHTH322, HLSC302, HLSC304, PHTH323
Aim: This module develops the students' understanding of the different approaches to the physiotherapy management of: patients who are critically ill (ICU); manual therapy in spinal conditions and those who have had joint replacement surgery; patients presenting with stroke, traumatic brain injuries, cerebral palsy and other related conditions.

Content: Principles of Physiotherapeutic management in joint replacement surgery of the hip, knee and shoulder. Subjective examination, objective examination of the cervical and lumbar spine. Physiotherapy management principles for cervical lumbar syndromes. Physiotherapy for post-surgical spines. Neurodynamics and introduction to mobilization of the nervous system. Physiotherapy for paediatric and adult intensive care. (Neurological and cardiac ICU), cardiac and thoracic surgery, neurology and trauma. Assessment, management and rehabilitation to achieve functional outcomes in patients with brain disorders resulting in postural and movement dysfunctional, including patients with stroke, traumatic head injury, cerebral palsy and related conditions (as available and appropriate to physiotherapy practice).

Assessment: Final Mark: Formative assessment (40%) + Summative assessment (60%). Formative: 1 x 2 hour theory test (50%), 1 OSPE (50%) Summative: 1 x 2 hour theory exam (50%), 1 OSPE (50%)

DP Requirement: Formative assessment mark of ≥ 40%

Physiotherapy Clinical Practice B

PHTH410 WY

(OL-40T-40P-0S-0H-5R-200F-20G-15A-27W-32C)

Prerequisite Modules: PHTH343, PHTH345

Aim: This module develops students’ skills in evaluating individuals, situations or a community in the context of the health system and their application of appropriate intervention skills in a curative, rehabilitative, preventative and promotive manner.

Content: Supervised clinical practice with emphasis on neurology and community development and rehabilitation.

Assessment: Final Mark: Formative assessment (60%) + Summative assessment (40%). Formative: Two clinical examination marks of 35% each and two clinical competency marks of 15% each. Summative: One clinical examination (100%) – externally moderated. A subminimum of 40% will apply to each component in the final exam.

DP Requirement: Completion of mandatory clinical hours. Formative assessment mark of ≥ 40%

Physiotherapy Research

PHTH445 WY

(50L-30T-0P-0S-57H-0R-180F-0G-3A-27W-32C)

Prerequisite Modules: HLSC340

Aim: At the end of this module students should be able to undertake a research project and communicate the findings in an oral and written form.

Content: Choice of topic after feasibility tests. Preparation of proposal following guidelines. Collect and analyse data. Prepare final written manuscript for publication according to SAPSE journal guidelines. Oral presentation of findings.

Practicals: 180 hours of individual and group field trips in preparation for and during the data collection process.

Assessment: Individual contribution and participation in the research process. Standardised assessment criteria are division-specific. Assessment of learners is based on individual contribution and participation in the research process. The final year honours research projects will take the form of manuscript articles written for SAPSE journals. Formative Research proposal presentation marked by the external examiners will constitute the CAM. This will constitute 40% of the final mark. Summative Presentation of the research project will constitute 20% of the final mark. The oral presentation will be externally examined. Examination of the final write-up of a scientific paper will constitute 40% of the final mark. The final write-up will be examined by an external examiner. Final Mark = 40% proposal presentation (CAM) + 20% (oral presentation of research project) + 40% (marked written scientific paper). A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester.

DP Requirement: As per faculty rules.

POP Practice, Ethics & Practice Management 4

PHTH451 WY

(220L-0T-25P-0S-20H-23R-0F-18G-14A-30W-32C)

Prerequisite Modules: PHT341, PHTH342, HLSC311, HLSC314

Corequisite: None

Aim: This module develops the students' understanding of the different approaches to the physiotherapy management of: patients who are critically ill in ICU & high care; patients with neurological conditions as well as manual therapy in
spinal conditions. This module covers key issues related to ethical professional practice and community and public health. Students will be introduced to clinical sciences within the field of orthopaedics, trauma and pharmacology.

**Content:** Orthopaedics, rheumatology, pharmacology, cardiopulmonary resuscitation and first aid focused on clinical sciences. Subjective examination, objective examination of the cervical, thoracic and lumbar spine. Physiotherapy management principles for vertebral and peripheral conditions. Physiotherapy for post-surgical spines. Neurodynamics and introduction to mobilization of the nervous system. Soft tissue concepts. Physiotherapy for paediatric and adult intensive care. Neurosurgical, cardiothoracic & trauma ICU. Adult and paediatric neurological rehab. The principles of practice management processes at institutional, public and private; community and other health care delivery sites. Professional Ethics and professional conduct as stipulated by the professional Board of Physiotherapy and HPCSA. The role of the Health Professions Council of South Africa and the Board of Physiotherapy. Human rights issues and related patient rights to professional practice. Community, public and occupational health.

**Practicals:** 77 hours of practical teaching within the classroom using clinical case scenarios and case studies

**Assessment:** Formative 50% + Summative 50% = Final mark Formative: 2 Theory tests (35%) 2 Practical assessments (OSPE) (35%) 2 group work assessments (30%) Summative: 1 Theory examination (70%) 1 Practical examination (OSPE) (30%)

**DP Requirement:** Formative Assessment Course Mark of 40%

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## Plastic and Reconstructive Surgery

**Plastic & Rec Surg Clinical & Prof. Prac 1**

PLRS8A5 MC

(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Anatomy, physiology, pathology and pharmacology relevant to the practice of operative surgical care; Principles of surgical care common to all surgical disciplines, and of orthopaedic, neurosurgical, urological, plastic and general and cardiothoracic surgical care.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Primary Examination: Two 3-hour papers of MCQ and/or short written questions on basic sciences. Examination: One 3-hour consisting of essay and/or short questions on the principles of surgery in general and the principles of surgical specialty disciplines. A viva voce examination on each of the principles of surgery in general and the principles of surgical specialty disciplines. All components must be passed separately.

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

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**Plastic & Rec Surg Clinical & Prof. Prac 2**

PLRS8A6 MC

(20L-96T-0P-48S-288H-80R-1910G-222A-90W-270C)

**Prerequisite Requirement:** None

**Prerequisite Modules:** PLRS8A5

**Corequisite:** None

**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: The theory and practice of Plastic & Reconstructive Surgery including general surgery and the applied basic sciences, anatomy, physiology and pathology.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subject to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour papers. An oral examination on the theory and practise of plastic and reconstructive surgery. A clinical examination of short and long cases The weighting of the examination as follows: Paper 1 – 15%; Paper 2 – 15%; Oral – 20%; Long case – 20%; Short case – 30%. All components must be passed separately.

DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

MMED-Research

Research Methodology
PMD801 MA HA WA (0L-8T-0P-0S-96H-0R-0F-1G-55A-0W-16C)

Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: Introduction to the process of research in order to equip students to draft their own research proposals, implement the proposal and write the research report.

Content: Research process and research designs, populations and sampling, instrument selection and development, ethics of research, validity and reliability, data analysis, report writing.

Practicals: None

Assessment: Students have to produce a research proposal which is approved by the Leader of Research: School of Clinical Medicine and by the Biomedical Research Ethics committee. This is the only assessment done in the module.

DP Requirement: None

Research Project
PMD802 M0 H0 W0 (0L-0T-0P-10S-1565H-0R-0F-20G-45A-0W-164C)

Prerequisite Requirement: None
Prerequisite Modules: PMED801
Corequisite: None

Aim: The module aims to facilitate independent completion of a research project under the guidance of a research supervisor on a relevant, current and contextual medical topics; and production of a research report in the form of a dissertation or a peer reviewed journal article for publishing in a SAPSE recognized journal.

Content: Theoretical knowledge of research including (i) the scientific selection of an appropriate research topic, (ii) conducting a relevant literature review aligned to the research paradigm of choice; (iii) data collection (iv) data analysis and (v) write up of results and dissemination of research findings.

Practicals: None

Assessment: Research Project 100%.

DP Requirement: A scientifically acceptable research proposal, which must be approved by Academic Leader Research and the relevant ethics committee of UKZN.
Paediatric Surgery

Paediatric Surgery C & P Practice 1
PSGY8A5 MC
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline; To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.
Content: Anatomy, physiology, pathology and pharmacology relevant to the practice of operative surgical care; Principles of surgical care common to all surgical disciplines, and of orthopaedic, neurosurgical, urological, plastic, paediatric, general and cardiothoracic surgical care.
Practicals: None
Assessment: Formative: Students are subjected to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 and Intermediate examinations of the College of Paediatric Surgeons of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Part 1: Two 3-hour MCQ papers. Intermediate: Two 3-hour MCQ papers; Two viva voce examinations. Candidates to pass each component separately with a pass mark of 50%.
DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

Paediatric Surgery C & P Practice 2
PSGY8A6 MC
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Modules: PSGY8A5
Corequisite: None
Aim: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist paediatric surgeon and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: Anatomy, embryology, physiology, biochemistry, pathology and surgery of the newborn, infant and child; Prenatal and perinatal management of paediatric surgical diseases; Investigation and surgical management of congenital malformations and related surgical pathology; Management of benign and malignant tumours in children. Management of the infant or child subject to trauma: General principles of Orthopaedic, Thoracic, Maxillofacial, Neuro- and Plastic surgery as applied to the paediatric population; Gastro intestinal, hepatobiliary, pancreatic, splenic and abdominal wall conditions; Genito-urinary tract conditions; Inguino-scrotal region and intersex anomalies. The principles of management and the role of surgery in malignant diseases; Pertinent gynaecologic, skin and subcutaneous, endocrine anomalies and conditions; Solid organ transplantation. Communication - Ethics and Consent, interpretation and evaluation of surgically relevant medical literature. Differing patterns of surgical disease, their natural histories and responses to treatment; Transportation of patients Trauma.
DP Requirement: As per faculty rules.

Psychiatry

Psychiatry Clinical & Prof Prac 1
PSYT8A5 MC
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
**Aim:** To develop competence in the foundation sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Selected topics from the neuro-sciences (neuro-anatomy, neurophysiology, psychopharmacology), Behavioural sciences (psychology, social anthropology, sociology), Biostatistics and genetics, Service in an approved registrar’s post under the guidance of staff from the Department of Psychiatry, Basic aspects of psychiatry.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subject to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written paper including a written viva voce for each paper Paper 1 – general surgical and surgical pathology theoretical + viva voce Paper 2 – anatomy and operative surgery theoretical + viva voce Clinical cases, OSCE The weighting of the examination is: Paper 1 (including viva voce) – 25%; Paper 2 (including viva voce) – 25%, Clinical cases – 30%, OSCE – 20%  

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

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**Psychiatry Clinical & Prof Prac 2**  
PSYT8A6 MC  
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)  
**Prerequisite Requirement:** None  
**Prerequisite Modules:** PSYT8A5  
**Corequisite:** None  
**Aim:** The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.  
**Content:** General and special areas of psychiatry, psychopharmacology, psychotherapy, research methodology; Ethics in psychiatry; Clinical neurology with emphasis on neuropsychiatry.  
**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.  
**Assessment:** Formative: Students are subject to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three 3-hour written papers; A clinical examination and OSCE; An oral examination .The weighting of the examination is: Written papers – 30% (10% each); Neuropsychiatry OSCE – 20%; Psychiatry long case – 30%; Psychiatry Oral – 20% Each component must be passed separately.  
**DP Requirement:** 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

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**Pulmonology and HIV**

**Advanced Antiretroviral Therapy in Adults**  
PULM6AA MC  
(28L-0T-0P-0S-82H-24R-20F-0G-6A-15W-16C)  
**Prerequisite Modules:** PULM6IA  
**Corequisite:** None  
**Aim:** To establish a sound knowledge of the clinical management of HIV disease and develop clinical skills to diagnose, identify and prevent HIV and its complications including Opportunistic Infections among adults.  
**Content:** Pharmacodynamics and kinetics of ARV drugs. Initiation and monitoring of antiretroviral therapy (ART). Complications of ART. Development and monitoring/evaluation on an ART programme.
Practicals: A clinical logbook confirming that a minimum number of appropriate patients have been clerked, assessed and management plans have been established.

Assessment: Formative (25%): Students are assessed during the block on the basis of case presentations from their clinical logbooks. This is done according to structured criteria including completeness of history and examination, presentation skills, problem solving ability, management plan and follow up. Summative (75%): The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass the case presentation and the written examination by obtaining a minimum mark of 50% for EACH of the examinations.

DP Requirement: None

Advanced HIV/AIDS Related Diseases in Adults  
PULM6AH MC  
(28L-0T-0P-0S-82H-24R-20F-0G-6A-15W-16C)
Prerequisite Modules: PULM6IA
Corequisite: None

Aim: To establish a sound knowledge of the clinical management of HIV disease and develop clinical skills to diagnose, identify and prevent HIV and its complications including Opportunistic Infections among adults.


Practicals: A clinical logbook confirming that a minimum number of appropriate patients have been clerked, assessed and management plans have been established.

Assessment: Formative (25%): Students are assessed during the block on the basis of case presentations from their clinical logbooks. This is done according to structured criteria including completeness of history and examination, presentation skills, problem solving ability, management plan and follow up. Summative (75%): The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass the case presentation and the written examination by obtaining a minimum mark of 50% for EACH of the examinations.

DP Requirement: None

A C and T A of Paediatric HIV  
PULM6AP MC  
(28L-0T-0P-0S-82H-24R-20F-0G-6A-15W-16C)
Prerequisite Modules: PULM6IP
Corequisite: None

Aim: To establish a sound knowledge of the clinical management of HIV disease and develop clinical skills to diagnose, identify and prevent HIV and its complications including Opportunistic Infections among adults.


Practicals: A clinical logbook confirming that a minimum number of appropriate patients have been clerked, assessed and management plans have been established.

Assessment: Formative (25%): Students are assessed during the block on the basis of case presentations from their clinical logbooks. This is done according to structured criteria including completeness of history and examination, presentation skills, problem solving ability, management plan and follow up. Summative (75%): The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass the case presentation and the written examination by obtaining a minimum mark of 50% for EACH of the examinations.

DP Requirement: None
Bioethics and Special Issues in HIV/AIDS  
PULM6BE MC  
(48L-0T-0P-0S-82H-24R-0F-0G-6A-15W-16C)  

**Prerequisite Modules:** None  

**Corequisite:** None  

**Aim:** To establish in the learner a sound knowledge of special issues in HIV care not covered in other modules. This module will give learners a sound knowledge of the ethical and legal issues related to HIV, its care provision and HIV-related research.  


**Practicals:** None  

**Assessment:** Summative: The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass this written examination by obtaining a mark of 50% for the examination.  

**DP Requirement:** None  

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Intro. to C and T Aspects of Adult HIV/AIDS  
PULM6IA MC  
(48L-0T-0P-0S-82H-24R-0F-0G-6A-15W-16C)  

**Prerequisite Modules:** None  

**Corequisite:** None  

**Aim:** To establish a sound knowledge of the clinical management of HIV disease with specific regard to its natural history, clinical manifestations, prevention and treatment.  


**Practicals:** None  

**Assessment:** Summative: The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass this written examination by obtaining a mark of 50% for the examination.  

**DP Requirement:** None  

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Intro. to C&T Aspects of Paediatric HIV/AIDS  
PULM6IP MC  
(36L-0T-0P-6S-82H-24R-0F-6G-6A-15W-16C)  

**Prerequisite Modules:** None  

**Corequisite:** None  

**Aim:** To establish a sound knowledge of the clinical management of HIV disease in children with specific regard to its natural history, clinical manifestations, prevention and treatment.  


**Practicals:** None  

**Assessment:** Formative (25%): 25% of the final module mark will be made up of assessment of the clinical components of the module. This will take the form of structured assessment of student clinical presentation of cases relevant to the clinical topics covered in the module including clinical features of acute and chronic HIV, opportunistic infections, HIV/TB and management using antiretroviral therapy in children. Summative: The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper which will test the student’s understanding of the pathogenesis and disease progression of HIV and the diagnosis, features and management of its complications including opportunistic infections in children. Candidates must pass this written examination by obtaining a mark of 50% for the examination.
DP Requirement: None

Managing HIV infection in Women
PULM6MW MC
(48L-0T-0S-82H-24R-0F-0G-6A-15W-16C)
Prerequisite Modules: None
Corequisite: None
Aim: This module will provide students with in depth knowledge of HIV infection with regards to women's health issues, in particular, the prevention of mother to child transmission and the care during pregnancy and puerperium. It will also provide students with clinical exposure to HIV/AIDS problems related to women.
Content: Epidemiology and natural history of HIV infection in women. HIV in pregnancy - risk factors for and prevention of mother to child transmission, use of ARV for maternal health benefit, obstetric care. HIV and reproductive health - sexually transmitted infections, contraception, cancers. The prevention of mother to child transmission
Practicals: None
Assessment: Summative: The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass this written examination by obtaining a mark of 50% for the examination
DP Requirement: None

Intro. to the Virology & Epidemiology of HIV
PULM6VE MC
(48L-0T-0S-82H-24R-0F-0G-6A-15W-16C)
Prerequisite Modules: None
Corequisite: None
Aim: This module will teach a sound knowledge of those aspects of Virology, immunology and epidemiology of HIV/AIDS which are necessary for an understanding of the origins, pathogenesis, diagnosis and transmission driving factors of HIV/AIDS. It will also seek to establish in the learner a sound knowledge of human immunological response to and the prevention of HIV/AIDS.
Practicals: None
Assessment: Summative: The end of module, written examination forms the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper. Candidates must pass this written examination by obtaining a mark of 50% for the examination
DP Requirement: None

Paed Track : HIV/AIDS Rel Dis in Children
PULM801 MC
(56L-0T-14P-0S-90H-0R-0F-0G-0A-13W-16C)
Aim: To establish in the learner a sound knowledge of the clinical management of HIV disease in children with specific regard to its natural history, clinical manifestations, prevention and treatment. This module deals with the diagnosis and management of the total spectrum of HIV related diseases encountered in children
Content: • Diagnosis of HIV-related illnesses in children : a brief overview • Conditions of the respiratory system • Tuberculosis : HIV-TB interaction in children • Conditions of the neurological system • Conditions of the gastrointestinal system • Conditions of the lymph system • Conditions of the ear, nose and throat • Conditions of the mouth • Conditions of the skin • Fever • Prophylaxis and prevention of opportunistic infections • Diagnosis and management of HIV-related cancers • Clinical case studies
Assessment: EXAMINATION 100%
DP Requirement: As per College rule

Adult Track:HIV/AIDS Related Diseases
PULM8A1 MC
(0L-0T-0P-0S-160H-0R-0F-0G-0A-0W-16C)
**Aim:** This module will build on introductory module on clinical aspects of HIV in adults and give learners a sound knowledge of the clinical management of HIV disease in adults with specific regard to its natural history, clinical manifestations, prevention and treatment. It will also deal with the diagnosis and management of the total spectrum of HIV related diseases encountered in adults. Special attention will be given to all aspects of the diagnosis and management of TB.

**Content:**
- Diagnosis of HIV-related illnesses in adults: a brief overview
- Conditions of the respiratory system
- Tuberculosis: HIV-TB interaction in adults
- Conditions of the neurological system
- Conditions of the gastrointestinal system
- Conditions of the lymph system
- Conditions of the ear, nose and throat
- Conditions of the mouth
- Conditions of the skin
- Fever
- Prophylaxis and prevention of opportunistic infections
- Diagnosis and management of HIV-related cancers
- Diagnosis of TB
- Pathogenesis and natural history of TB
- Management of TB
- National TB control program
- Management of HIV-TB co-infected patients
- Clinical case studies

**Assessment:** Written examination 100%

**DP Requirement:** As per College rule

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**Antiretroviral Therapy in Adults**

**PULM8B1 MC**

**Prerequisite Requirement:** None

**Aim:** This module will introduce to the learner the principles of antiretroviral drug usage in adults. It will build on the learners' knowledge and experience of HIV care and teach them the theoretical and practical application of antiretroviral drugs in adults.


**Assessment:** Written examination 100%

**DP Requirement:** Attendance of at least two-thirds of all lectures; passing all tests, and passing all assignments.

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**Antiretroviral Therapy in Children**

**PULM8C1 MC**

**Prerequisite Requirement:** None

**Aim:** This module will build on the introductory module and give learners a sound knowledge of the principles of antiretroviral therapy in children. Further, it will equip the learner to manage children on antiretroviral therapy in an appropriate and rational manner.


**Assessment:** Case presentations (50%), written examination (50%).

**DP Requirement:** Attendance of at least two-thirds of all lectures and satisfactory case presentations.

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**Diag & Mgt of Sexually Transmitted Diseases**

**PULM8D1 MC**

**Prerequisite Requirement:** None

**Aim:** This module will give learners a sound knowledge of the principles of management of sexually transmitted diseases (STDs) in adults, including diagnosis and treatment.

**Content:** Characteristics of microbes (bacteria, protozoa and viruses) that cause STIs. Principles and indications for point-of-care and classic laboratory tests in the diagnosis of STDs. Mode of activity, pharmacokinetics/pharmacodynamics and mechanisms of resistance of antimicrobial agents used for treatment of STDs. Treatment failure analysis. Non-drug components of syndromic management. Non-STI causes of STD symptomatology and their management or referral.

**Assessment:** WRITTEN EXAMINATION 100%

**DP Requirement:** Attend at least two-thirds of all lectures and deliver acceptable case presentations.

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**Intro to the Antiretroviral Thrpy in Children**

**PULM8E1 MC**

**Prerequisite Requirement:** None

**Aim:** This module will give learners a sound knowledge of the principles of management of sexually transmitted diseases (STDs) in adults, including diagnosis and treatment.
Prerequisite Requirement: None
Aim: This module will introduce to the learner the principles of antiretroviral drug usage in children. It will build on the learners’ knowledge and experience of HIV care and teach them the theoretical and practical application of antiretroviral drugs in children.
Assessment: Written examination 100%
DP Requirement: Attendance of at least two-thirds of all lectures; passing all tests, and passing all assignments.

Intro to Antiretroviral Therapy in Adults
PULM8F1 MC
Prerequisite Requirement: None
Aim: This module will introduce to the learner the principles of antiretroviral drug usage in adults. It will build on the learners’ knowledge and experience of HIV care and teach them the theoretical and practical application of antiretroviral drugs in adults.
Assessment: Written examination 100%
DP Requirement: Attend at least two-thirds of lectures, do acceptable case presentations.

Intro to Diagnosis of HIV/AIDS
PULM8G1 MC
Prerequisite Requirement: None
Aim: This module will give learners a sound knowledge of those aspects of Virology of HIV/AIDS which are necessary for an understanding of the origins, pathogenesis and diagnosis of HIV/AIDS. It will also seek to establish in the learner a sound knowledge of human immunological response to HIV/AIDS.
Assessment: Assignments (50%), written examination (50%)
DP Requirement: Attendance of at least two-thirds of all lectures; passing all tests, and passing all assignments.

Intro to Epidem,HIV/AIDS Programming
PULM8H1 MC
Prerequisite Requirement: None
Aim: This module will teach an understanding of those aspects of epidemiology of HIV/AIDS which are necessary for an understanding of the clinical management of HIV/AIDS. It will also provide students with a sound knowledge of control of HIV/AIDS by providing an understanding of transmission of the disease and strategies to promote prevention and control
Assessment: Assignments (50%), written examination (50%)
DP Requirement: Attendance of at least two-thirds of all lectures; passing all tests, and passing all assignments.

Intro to the Clin Aspects of Adult HIV/AIDS
PULM8I1 MC
Prerequisite Requirement: None
Aim: To establish in the learner a sound knowledge of the clinical management of HIV disease with specific regard to its natural history, clinical manifestations, prevention and treatment.
Assessment: WRITTEN EXAMINATION 100%
**Intro to the Clin Aspects of Paed HIV/AIDS**

**PULM8J1 MC**

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**Aim:** This module will teach an understanding of the clinical management of HIV disease in children with specific regard to its natural history, clinical manifestations, prevention and treatment.


**Assessment:** Written examination 100%

**DP Requirement:** Attendance of at least two-thirds of all lectures; passing all tests, and passing all assignments.

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**Introduction to Medical Bioethics**

**PULM8K1 MC**

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**Aim:** This module will introduce to the learner the history and principles of Bio-ethics in the field of HIV/AIDS. Practical issues related to rationalisation of care and ethics issues related to research on HIV/AIDS in sub-Saharan Africa will be covered.


**Assessment:** Written examination 100%

**DP Requirement:** Attend at least two-thirds of all lectures; do acceptable case presentations.

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**Managing HIV/AIDS Infection in Women**

**PULM8L1 MC**

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**Aim:** This module will provide students with in depth knowledge of HIV infection with regards to women’s health issues, in particular, the care during pregnancy and pueperium. It will also provide students with clinical exposure to HIV/AIDS problems related to women

**Content:** Epidemiology and natural history of HIV infection in women. HIV in pregnancy - risk factors for and prevention of mother to child transmission, use of ARV for maternal health benefit, obstetric care. HIV and reproductive health - sexually transmitted infections, contraception, cancers. The prevention of mother to child transmission

**Assessment:** Written examination 100%

**DP Requirement:** Attendance of at least two-thirds of all lectures; do acceptable case presentations.

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**Special Issues of HIV/AIDS**

**PULM8M1 MC**

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**Aim:** This module will teach an understanding of the natural history, diagnosis and management of pathological processes peculiar to HIV, including TB and STDs. It will also introduce students to the management of HIV in pregnancy, including MTCT prevention. The module will further teach an understanding of post-exposure prophylaxis with special reference to health workers, and introduce learners to complementary and alternative treatment options.


**Assessment:** Case presentations (50%), examination (50%).

**DP Requirement:** Attend at least two-thirds of all lectures, make acceptable case presentations.

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**Palliative Care**

**PULM8N1 MC**

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**Aim:** This module will teach an understanding of the natural history, diagnosis and management of pathological processes peculiar to HIV, including TB and STDs. It will also introduce students to the management of HIV in pregnancy, including MTCT prevention. The module will further teach an understanding of post-exposure prophylaxis with special reference to health workers, and introduce learners to complementary and alternative treatment options.


**Assessment:** Case presentations (50%), examination (50%).

**DP Requirement:** Attend at least two-thirds of all lectures, make acceptable case presentations.
**Aim:** To provide increased knowledge of correct clinical management of end-of-life care for patients with HIV/AIDS, and to encourage health professionals to play a role in providing comprehensive end-of-life care through improving their understanding of nutritional, psychological, social, ethical and legal issues. By discussing models of community-based palliative care, to emphasise the principles of: the clinical criteria for commencement of palliative care; referral for community based care; team work; and holistic approaches.

**Content:** Palliative Care, nutrition, community Based Care.

**Assessment:** WRITTEN EXAMINATION 100%

**DP Requirement:** Attendance of all scheduled meetings unless excused, completion of all assignments.

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**Paed Track:** HIV/AIDS Rel Dis in Children  
PULM8O1  

**Prerequisite Requirement:** None

**Aim:** This module will build on the introductory module and give learners a sound knowledge of the clinical management of HIV disease in children with specific regard to its natural history, clinical manifestations, prevention and treatment. It will also deal with the diagnosis and management of the total spectrum of HIV-related diseases encountered in children.


**Assessment:** Case presentations (50%), written examination (50%).

**DP Requirement:** Attendance of at least two-thirds of all lectures; satisfactory case presentations.

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**Radiology**

**Radiology Clinical & Prof Pract 1**  
RAD8A5 MC  

**Prerequisite Requirement:** None

**Prerequisite Modules:** None

**Corequisite:** None

**Aim:** The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

**Content:** Basic sciences underpinning radiology, medical physics, radiation physics, radiation anatomy; Medical imaging Radiological and imaging techniques.

**Practicals:** Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

**Assessment:** Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: One 3-hour written paper for radiation physics (50%) Two or Three spot tests for Imaging Anatomy (50%) Each component must be passed separately.

**DP Requirement:** 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

**Radiology Clinical & Prof Pract 2**  
RAD8A6 MC  

**Prerequisite Requirement:** None

**Prerequisite Modules:** RAD8A5
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: Theoretical and practical diagnostic radiology, nuclear medicine and emerging technologies in the field; Clinical medical practice and pathology as applied to diagnostic radiology.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three 3-hour written papers; Case reporting examination; Oral examination (2 sessions). The weighting of the examination is: Written – 25%; Reporting – 25%; Oral A – 25%; Oral B – 25% Each component must be passed separately.
DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Radiotherapy and Oncology

Radiotherapy & Oncol Clinical & Prof Prac 1
RTPY8A6 MC
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To develop competence in the foundation sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.
Content: The theory and practice of radiotherapy and chemotherapy, and related medicine, surgery and gynaecology.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three written papers as follows: Paper 1 – Physics (3hours); Paper 2 – Radiobiology and cancer biology (3hours); Paper 3 – Applied anatomy (2hours). Each paper must be passed separately.
DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Radiotherapy & Oncol Clinical & Prof Prac 2
RTPY8A7 MC
Prerequisite Requirement: None
Prerequisite Modules: RTPY8A6
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: The theory and practice of radiotherapy and chemotherapy, and related medicine, surgery and gynaecology.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three 3-hour written papers; Viva voce examination; Practical examination (OSCE). Each component needs to be passed separately.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Occupational Therapy

Groupwork Practice
SAOS800 WY
(0L-4T-0P-0S-13H-0R-140F-0G-3A-0W-16C)

Aim: To provide students with appropriate fieldwork/clinical experience to apply and integrate theory into practice and to develop specialist group therapy skills in respect to assessment and intervention, within promotive, preventive, remedial and rehabilitation programmes. To develop skills to do needs analysis and contribute to service development as appropriate for therapeutic groupwork

Content: This module comprises of different placement experiences. 100 hours placement in appropriate clinical/fieldwork site(s), with prescribed requirements for group therapeutic practice, (as appropriate for Therapeutic Group work I and 2 ) Group therapeutic practice during that time to be based on thorough assessment, planning, and the implementation/offer ofing of a minimum of 20 hours of group/therapy by each student , reporting and recording as required within the setting. 40 hours placement in a facility providing services for Trauma survivors - with prescribed requirements (linked to module on Trauma theory and practice)

Assessment: Portfolio 50% ( focus on reflection of group therapy; attendance logs), Assignment – 30% (placement area/group-video/ presentation and discussion), Assignment – 20% (Trauma Unit-video/ presentation and discussion) Supervision visit by academic staff to placement area.

DP Requirement: 100% attendance, 100% cam

Therapeutic Groupwork 1
SAOS801 W1
(10L-0T-6P-30S-70H-20R-0F-14G-10A-13W-16C)

Aim: To situate group therapy within theoretical, practice, ethical and profession specific contexts and to enhance existing practice and develop specialist knowledge and skills in respect to assessment and intervention (planning and implementation). To enable practitioners to critically examine the current issues in group therapy and to evaluate the evidence base for best practice, To train expert practitioners in group therapy and group leaders who are able to act as agents for change with a deeper knowledge and understanding of the factors that facilitate effective practice within different professional, social, health and environmental contexts

Content: A comparative analysis and critical review of different theoretical frameworks and models of practice as integral to the scope of practice within different disciplines. Inter-professional frames of reference such as: humanistic/ cognitive- behavioural/existential. Advanced group theory and philosophy with emphasis on the participatory model utilising contemporary models from the U.S.A. and Britain as well as liberation movements. Group process, dynamics, phases, leadership styles, techniques and classification of groups. Policy, principles and indications for therapeutic group work as well as the exploration of different approaches and their application in practice. Ethical and legal considerations and professional ethical obligations. Requirements as relevant to group work practice; precautions, limitations, assessment and selection of clients, reporting and recording. Group work as integral component of the change process (as per Discipline) Considerations for application within different fieldwork contexts (age groups, diagnostic groups and settings).

Practicals: Group work presentation (by students) reflective of Department/discipline specific group practices / procedures for class discussion and evaluation: participation in an experiential group therapy process, as a member of the group.

Assessment: Formative: Portfolio : 15%, Test : 45%, Assignment: 40% Summative: Essay question of 5000 words100%. CAM : Exam 70:30

DP Requirement: s per College rule
Mental Health and Psychiatry in Context
SAOS802 W1

**Aim:** To further knowledge and develop capacity for critical thinking and clinical reasoning in terms of mental health issues and needs specifically with regard to potential/need/demand for therapeutic group work. To equip students with appropriate knowledge and understanding of major systemic factors affecting the cultural, socio political economic situation and health of the broader population of SA, and attain skills in the evaluation of such factors and planning intervention through group therapy. To ensure that students have the necessary knowledge and understanding of mental health, it’s precipitating, predisposing and perpetuating factors and are adequately equipped to deal with mental health issues, and individuals and groups with mental health problems (including those with disorders)

**Content:** Major psychosocial, health and environmental determinants of mental health, the needs of mental healthcare users and their caregivers. Mental health disorders dealt with include, but is not exclusive to, mood disorders (anxiety, depression), post traumatic stress, eating, substance abuse, personality and adjustment disorders. Intervention as offered in institutional, community based settings and private settings – critical analysis and planning

**Practicals:** Participation in an experiential group therapy process, as a member of the group.

**Assessment:** Formative Assessment: Individual assignments – 50% (presentation and submission of essay question of 5000 words); peer review of video /presentation 20%; Written test - 30% Summative Assessment : 4 hour written examination CAM –EXAM 70: 30

**DP Requirement:** As per College rule

Trauma Theory & Practice
SAOS803 W2

**Aim:** To equip students with specialised knowledge of and insight into Trauma as occurring with the South African context, relevant theoretical frameworks, ethics and intervention strategies. To provide training to students to become expert group leaders in the managements of persons suffering from the psychological sequelae of trauma, through critical engagement with literature practice and experiential learning

**Content:** Specific theoretical approaches to understanding trauma; its causes and effects including psycho neurological impact; cycle and phases of trauma and indications for group therapy. To be covered with specific reference to: Restorative Justice, Victim Charter, survivor needs and rights, Sinani Cycle of violence; cycle of peace and survivor empowerment; Post traumatic stress disorder and secondary and various traumatisation, Compassion fatigue. Intervention Strategies; trauma counselling with reference to safety and containment; dealing with survivors and perpetrators, violence and abuse; dealing with anger and revenge; depression; bereavement and grief; dealing with trauma related guilt and self blame. Cultural aspects of trauma

**Practicals:** Participation in an experiential group therapy process, as a member of the group. Note: Placement in facility offering services to survivors of Trauma included in Groupwork practice module

**Assessment:** Formative : Test – 40%, Individual assignments - 2 X 30% each Summative: Written examination – 5000 word essay question CAM : exam 70:30

**DP Requirement:** As per College rule

Therapeutic Groupwork 2
SAOS804 W2

**Aim:** The purpose of this module is to critically engage with and further develop theoretical constructs, approaches and models, utilizing the work of various leaders in the field both nationally and internationally, allowing the participant to gain knowledge of these theories/models and techniques through experiential learning. The learner will be enabled within this module through on-site learning facilitation, self reflection and peer support

**Content:** Theoretical constructs of Moreno, Blatner, Hollander and other leaders in the field. Concepts of role reversal, empty chair, doubling, sculpting, warm ups, Specialized groups with a focus on: persons with physical disabilities; children; adolescents and persons with mental illness, marginalized groups. Classical and Specialized psychodrama groups utilizing archetypal psychodrama, theoretical constructs of Drago Drama with experiential learning

**Practicals:** Participation in an experiential group therapy process, as a member of the group

**Assessment:** Formative: Portfolio Compilation – 15%, Assignment (with presentation) – 40% Test /assignment/seminar– 45% Summative: 5000 word essay question: CAM : EXAM 70: 30

**DP Requirement:** As per College rule
Sport Science

History & Mngt in Sport and Exercise
SSBR101 W1 (40L-10T-0P-80H-10R-0F-0G-20A-13W-16C)
Aim: To provide students with an introduction to the foundations and management of Recreation, Exercise Science and Biokinetics. The purpose is to provide learners with an understanding about the historical development of Sport Science and a broad overview of Sport Management in the 21st century
Content: The philosophical analysis and historical development of the conceptual foundations of Sport and Recreation. Sport Management in the 21st century and organisational management of sport and recreation.
Assessment: Assessment: Formative assessment: History: 1 x 45 minute test (50%), assignment (30%), powerpoint presentation (20%). Sport Management: 1 x 1 hour test (60%) & 1 x assignment (40%). All other details will be explained in a class. Summative: 1x2 hours exam paper (each component holding an equal weighting). The CAM contributes 40% and the final examination mark is 60%. To qualify for supplementary examination a student must achieve a minimum of 40% in the final exam.
DP Requirement: 75% attendance of lectures, test. History & Sport Management will have an equal waiting and will each count 50% towards the Final DP mark

Elements of Human Anatomy
SSBR112 W2 (30L-10T-9P-46H-54R-0F-9G-2A-13W-16C)
Aim: To introduce students to the basic concepts of human anatomy. This module is critical to the (1) understanding of how the structures of the body are designed to work in an integrated manner in sport and exercise (2) understanding of sport injuries and the rehabilitation thereof. (3) designing of exercise programmes.
Content: A general introduction to the structure of tissues and the different types of connective tissue. The skeletal system: bone types, functions, structure of joints and the classification thereof. Muscular systems: structure and organization of skeletal muscles tissue and the description of major muscles in the body. The above content covers aspects related to the sport science student specifically, as a huge focus is on the musculoskeletal system and its functioning. There is integration between theoretical and practical aspects during study on the muscular system. To have a clearer understanding of the muscles origins, insertions and actions, exercises that engage the muscles as prime movers are presented by learners.
Assessment: Formative Assessment Tasks 2 x one hour tests (each test contributes 40% to CAM) multiple-choice, short questions and diagrams. Sections to be covered in the test will be given in class 1 x powerpoint presentation on a designated muscle from the muscular system or an exercise relating to the muscles (20% to CAM) Information to be presented on the powerpoint and a including video clips of the exercises engaging that muscles. Topics, details and aspects to be covered on the powerpoint will be explained in class. All other details pertaining to assessments will be explained in class. Summative Assessment 1 x 2 hour examination paper. A portion of the examination paper will comprise of multiple-choice questions. The other portion will comprise of short questions and diagrams. Calculation of marks. Test 1 and Test 2 =40% each towards CAM. Powerpoint presentation = 20% towards CAM. The CAM contributes 40% to the final mark for the module (Formative Assessment). The exam contributes 60% to the final mark (Summative Assessment). A subminimum of 40% will apply to all components of the exam.
DP Requirement: A 75% attendance of lectures and practical classes and a continuous mark (CAM) of at least 40% is required for a student to qualify for a DP. Biology as a matriculation subject provides a good foundation for this module.

Principles of Coaching & Conditioning
SSBR113 W1 (54L-17T-26P-10S-28H-13R-10F-0G-2A-13W-16C)
Aim: To introduce the students to the basic tenets of scientific coaching and conditioning techniques for sport and the general population groups.
Content: Principles of exercise prescription, fitness testing, science of strength training including periodizations, power training, speed power, endurance agility and flexibility. Practical application of all the above mentioned principles.
Practicals: 20 hours of Strength and Conditioning Demonstrations and Experience in the Discipline of Sport Science Health and Fitness Facility.
Assessment: Formative assessment: 2 x 1 hour tests, 2 x assignments, 1 x practical assessment. Summative assessment: 1 x 2 hour paper. Calculation of marks: 2 tests adding 60% towards continuous assessment mark (CAM),
2 assignments adding 30% towards CAM and 1 x practical assessment counting 10% towards CAM will be used to calculate the DP (formative assessment). Final mark: 40% DP and 60% exam. A subminimum of 40% will apply to all components of the exam.

**DP Requirement:** 75% attendance of lectures and practicals and a continuous assessment mark of 40% is required for a student to qualify for DP

**Kinesiology & Health Education**
SSBR114 2  (54L-17T-26P-10S-28H-13R-10F-0G-2A-13W-16C)

**Aim:**
- **Kinesiology** To introduce the students to the basic tenets of scientific movement of the body in relation to the latest published norms.
- **Health education** To introduce students to the health risks and hazards not only in sport but in a general scenario and to make them aware of the preventative methods and solutions.

**Content:**
- **Kinesiology** The recent methods in body movement in the relation to Sport and Science Movement in prevention of injury.
- **Health education** Current concerns in the world with regards to health awareness and strategies in prevention and solution.

**Assessment:**
- Formative assessment: 2 x 1 hour tests 1 x major assignment Practical presentations Summative assessments: 1 x 2 hour paper Short questions Essay questions Calculation of marks: 2 tests adding 40% towards CAM, 1 assignment adding 20% towards CAM and practical presentations will be used to calculate the DP (formative) 40% DP and 60% exam mark final (summative). A 40% subminimum for the exam, or component of the exam shall apply.

**DP Requirement:** 75% attendance of lectures and practicals and a continuous assessment mark of 40% is required in both component within the module for a student to qualify for DP.

**Practical Component**
SSBR115 W1  (0L-10T-30P-0S-16H-8R-0F-0G-16A-15W-8C)

**Aim:**
- **Swimming** Learners will be introduced to different swimming styles and techniques. Conditioning To introduce the students to the basic tenets of scientific conditioning techniques for sport and the general population groups in a practical scenario. Softball Learning and playing aspects of softball with training regimes added in extending knowledge towards the game.
- **Conditioning** Important principles for exercise prescription, fitness testing, science of warm-up & cool-down, aerobic training, anaerobic training, speed (introductory level) and agility (introductory level). Practical application of all the above mentioned principles, periodization, hazardous exercise. This is carried over from the theory lectures of principles of coaching and conditioning and progression is a key. Softball Prescription, testing and exercise training with the different positions of the game.

**Assessment:** Continuous Assessment: 6 x Formative assessments: Swimming (10%) + Conditioning (30%) + Softball (30%) + Portfolio of Evidence (30%) = 100%

**DP Requirement:** Continuous assessment with attendance of 100% at practical lessons

**Practical Component**
SSBR116 W2  (6L-10T-30P-0S-13H-5R-0F-0G-16A-15W-8C)

**Aim:**
- **Netball:** To teach students basic skills and coaching techniques of netball. Soccer: Students will be introduced to the rules of the game, as well as concepts of tactical play, and principles of conditioning and skills acquisition.
- **Conditioning:** To introduce the students to the basic tenets of scientific conditioning techniques for sport and the general population groups in a practical scenario.

**Content:**
- **Netball** Theoretical and practical knowledge of sport codes. • Basic skills and techniques of sport codes. • Coaching and conditioning for various sports. Soccer • The rules of the game • Basic tactics including formations • Comprehensive conditioning protocols • Biomechanics of the kicking action Conditioning: Important principles for exercise prescription, fitness testing, aerobic training progressions, anaerobic training progressions, speed progressions (basic level), agility progressions (basic level). Practical application of all the above mentioned principles, periodization, hazardous exercise. This is carried over from the theory lectures of principles of coaching and conditioning and progression is a key.

**Assessment:** Continuous Assessment: 6 x Formative assessments: Swimming (10%) + Conditioning (30%) + Softball (30%) + Portfolio of Evidence (30%) = 100%

**DP Requirement:** Continuous assessment with attendance of 100% at practical lessons
Evaluation, Statistics & Measurement of Sport
SSBR211 W1

Aim: To introduce the student to basic testing procedures and the use of equipment. To introduce basic statistical concepts for making sense of and analysing data.

Content: Statistics: Descriptive statistics, including methods for organizing and presenting data, summarizing or describing data and comparing two or more groups of subjects or conditions. Measurements: The evaluation of physical performance and individual physiological characteristics. All the major fitness components and their relevant tests are covered. These include aerobic, anaerobic, speed, power, explosiveness, strength, endurance, flexibility and posture.

Assessment: Formative Assessment Tasks: Statistics 2 x 1 hour tests 50% of the average of these two tests will be used in the computation of CAM. Measurements 2 x test (each test will count for 30% of the final measurement mark) x assignment which will count for the remaining 40% 50% of all these marks will be used for the computation of CAM. Examination Guidelines: Summative Assessment. 1 x 2½ hour paper Problem based questions in statistics 50 marks of the examination paper is allocated to statistics 50 marks of the examination paper is allocated to measurements Calculation of marks: Statistics: • 50% of the average of Test 1 and Test 2 will contribute to CAM. • The CAM contributes 40% to the final mark for the module (Formative Assessment) • The exam contributes 60% to the final mark (Summative Assessment) • A final mark of 50% is required to gain credit for the module. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP. A penalty of 5% per working day for late assignment

Biomechanical Principles of Sport Science
SSBR213 W1

Aim: Introduce the student to the analysis of sporting activities. Along with Kinesiology & Anatomy it forms the foundation to Sport Injuries. It is vitally important for the learner to analyze human movement.

Content: Basic introductory concepts. Linear and angular kinematics. Linear and angular kinetics. Analysis of selected physical activities and sport skills. The literature is updated and focuses on the latest techniques used by sportspersons. The use of new software programs (Dartfish) to assess movement patterns. The literature is then applied in a practical setting.

Assessment: Formative Assessment Tasks Orthopaedic rehabilitation: 2 x Tests (each counting 30% towards CAM) 1 x Poster (sport specific- counting for the remaining 40% of CAM) All other information pertaining to assessments will be explained in class. Summative Assessment. 1 x 2 hour exam paper 100 marks The questions will be in the form of short questions, defining terms and an in depth analysis of certain movements. Calculation of marks • The CAM contributes 40% to the final mark for the module (Formative Assessment) • The exam contributes 60% to the final mark (Summative Assessment) • A final mark of 50% is required to gain credit for the module. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

Practical Component level 2A
SSBR215 W1

Aim: Acquisition of sport skills and coaching techniques for selected codes of sport.

Content: Swimming: Learners will use and create drills to improve technique as well as for conditioning for sprint or endurance swimmers. An element of water games/activities will be introduced with regards to conditioning for athletes or recreational activities for the different populations. Conditioning: To introduce the students to the basic principles of scientific conditioning techniques for sport and the general population groups in a practical scenario. Volleyball: The acquisition of sports skills and coaching techniques for volleyball.

Assessment: Continuous Assessment: 6 x Formative assessments: Swimming (10%), Conditioning (30%), Volleyball (30%) and Portfolio of Evidence (30%)

DP Requirement: Continuous assessment with minimum 100% attendance of practical classes

Practical Component level 2B
SSBR216 W2

(0L-10T-30P-0S-16H-8R-0F-0G-16A-15W-8C)

Aim: To introduce the student to basic testing procedures and the use of equipment. To introduce basic statistical concepts for making sense of and analysing data.

Content: Statistics: Descriptive statistics, including methods for organizing and presenting data, summarizing or describing data and comparing two or more groups of subjects or conditions. Measurements: The evaluation of physical performance and individual physiological characteristics. All the major fitness components and their relevant tests are covered. These include aerobic, anaerobic, speed, power, explosiveness, strength, endurance, flexibility and posture.

Assessment: Formative Assessment Tasks: Statistics 2 x 1 hour tests 50% of the average of these two tests will be used in the computation of CAM. Measurements 2 x test (each test will count for 30% of the final measurement mark) x assignment which will count for the remaining 40% 50% of all these marks will be used for the computation of CAM. Examination Guidelines: Summative Assessment. 1 x 2½ hour paper Problem based questions in statistics 50 marks of the examination paper is allocated to statistics 50 marks of the examination paper is allocated to measurements Calculation of marks: Statistics: • 50% of the average of Test 1 and Test 2 will contribute to CAM. • The CAM contributes 40% to the final mark for the module (Formative Assessment) • The exam contributes 60% to the final mark (Summative Assessment) • A final mark of 50% is required to gain credit for the module. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP. A penalty of 5% per working day for late assignment
Aim: Conditioning: To introduce the students to the basic tenets of scientific conditioning techniques for sport and the general population groups in a practical scenario. Rugby: Acquisition of sports skills and coaching techniques for rugby.

Content: Conditioning: Important principles for exercise prescription, fitness testing, science of strength training, power training, speed power, endurance agility and flexibility. Practical application of all the above mentioned principles, periodisation, hazardous exercise. This is carried over from the 1st year of studies and progression is a key. Rugby: Theoretical knowledge and a practical “hands-on” experience of rugby. Coaching and conditioning of rugby will be included.

Assessment: Formative assessment tasks 1 x major assignment. Practical presentations. Rugby 1 x group presentation on a specific component of rugby (40%) 1 x theory test (60%) All other information pertaining to assessments will be explained in class. Examination guidelines: Continuous assessment.

DP Requirement: Continuous assessment with minimum 75% attendance of lectures and practical classes.

Ethics in Sport and Recreation
SSBR218 W2 (39L-10T-0P-3S-65H-19R-0F-10G-14A-13W-16C)

Prerequisite Requirement: None

Aim: The purpose of this module is to provide the students with an understanding of moral and ethical issues confronting sport and recreation professionals in contemporary society by providing them with a philosophical background to deal with a changing environment within the legal framework of South Africa.

Content: Students will be introduced to the philosophical perspectives of moral and ethical reasoning and its application to promoting Sport and Recreation in a professional manner within the legal framework of South Africa.

Assessment: CAM 40% is made up of the following assessments: 2 x Tests (50%) + these will be written tests of 40 minute duration 1 Assignment: presentation (25%) these assignments will be evaluated by the lecturer and peer evaluation during the presentation 1 Case Study (25%) – students will review journal articles on given topics. Final Exam mark 60% based on one 2 hour written examination A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: A duly performed certificate will be issued based on a CAM of 40% which is constituted from the assessments completed during the semester and 75% Attendance of lectures attended.

Intro to Recreation and Leisure Studies
SSBR221 W1 (39L-10T-0P-3S-65H-19R-0F-10G-14A-13W-16C)

Aim: The purpose of this module is to provide a conceptual foundation in recreation and leisure services with the focus on the promotion of healthy lifestyles in the community. This module provides the student with the knowledge and skills to understand the diverse benefits of recreation programs and the need to provide leisure time opportunities for all communities and across the lifespan for individuals. Recreation and leisure are recognised as an important intervention in providing primary health care alternatives to improve the health and wellbeing.

Content: The significance of play, recreation, and leisure in contemporary society and throughout the lifespan of an individual. Recreation programming and the benefits of recreation. The interrelationship between leisure behavior and the natural environment. Sustainable development of leisure and tourism. History and development of the profession and professional associations, current issues and trends in the profession.

Assessment: Formative assessment: 2 x 45 minute tests (50%), 1 Assignment: presentation (20%) and 1 project (30%). All other details pertaining to assessments will be explained in class. Summative assessment: 1 x 2 hour Exam paper. The CAM contributes 40% and the final examination mark is 60%. To qualify for supplementary examination a student must achieve a minimum of 40% in the final examination.

DP Requirement: 75% of attendance of lectures (10%), tests (50), Assignment (10%) and project (30)%

Applied Exercise Physiology
SSBR233 W2 (39L-26T-21P-0S-40H-10R-0F-14G-10A-13W-16C)

Prerequisite Requirement: HPHS111, HPHS112

Prerequisite Modules: HPHS111, HPHS112

Aim: To provide the learner with sound scientific knowledge regarding exercise physiology and its application to sport performance and health promotion.

Content: Cardio-respiratory, vascular and skeletal muscle physiology. Adaptations in these systems to acute and chronic aerobic, anaerobic and resistance training. Effect of exercise on the endocrine system. Effect of the environment
(altitude, hot and cold) on exercising individuals, including adaptation to these environments. Understanding physiological responses to exercise in children, gender differences and with ageing. Understanding the use of exercise and physical activity for the prevention and treatment of cardiovascular disease, chronic obstructive pulmonary disease, obesity, diabetes and the metabolic syndrome.

**Practicals:** Students will participate in 7 x 3 hour laboratory practicals where they will be trained in basic exercise physiology techniques and in the use of basic exercise physiology analysis equipment.

**Assessment:** Formative Assessment: 3 x 45 minute tests (50 marks each), 5 laboratory reports (50 marks each), Summative assessment: 1 x 2 hour paper. Calculation of marks: 3 tests adding 40% towards cumulative assessment mark (CAM), 5 x laboratory reports adding 60% towards CAM will be used to calculate the DP (formative assessment). Final mark: 40 % DP and 60 % exam. A 40% subminimum for the exam or component of the exam shall apply.

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

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**Kinanthropometry & Nutr. for Sport & Health**

SSBR234 W2

(44L-6T-18P-0S-47H-10R-0F-21G-14A-13W-16C)

**Prerequisite Requirement:** DP in SSBR112

**Aim:** The aims of this module are to provide opportunities to develop competency in the subject areas of kinanthropometry and nutrition for sport and health. These two subject areas are grouped together as they are closely linked in the practice of sport and exercise science. Kinanthropometry is the study of human body size, shape and form and how these characteristics relate to human movement and sporting performance. Nutrition is the study of foods and their effects upon health, development, and performance. The module will examine the effects of foods and their specific constituents as a means to help prevent major chronic diseases, such as heart disease, diabetes and cancer.

**Content:** Kinanthropometry focuses on human body composition, somatotyping and physical growth and performance. Nutrition focuses on human body nutrition and health, dietary analysis and weight management.

**Practicals:** Practical laboratory work will be performed in the Human Performance Laboratory and Biokinetics Clinic using the appropriate kinanthropometry testing equipment as well as nutritional/dietary analysis.

**Assessment:** Formative assessment: 2 theoretical tests of 60 min each, 6 laboratory reports that include a practical /skills mark (3 kinanthropometry and 3 nutrition). Summative assessment: Theory - 1 x 2 hour paper. Calculation of marks: DP (cumulative assessment mark (CAM): Theory (50%) and laboratory reports (50%) tests, together counting 60% towards CAM. Final mark: 40 % DP and 60 % exam. A 40% subminimum for the exam or component of the exam shall apply.

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

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**Exercise Biochemistry**

SSBR304 W2

(39L-30T-26P-10S-29H-14R-10F-0G-2A-15W-16C)

**Prerequisite Requirements:** SSBR233

**Prerequisite Modules:** SSBR233

**Aim:** The aims of this module are for the student to: 1) understand the biochemical pathways involved in metabolism of carbohydrate, fat and protein; 2) understand how exercise affects metabolism from a whole body level to a tissue, cellular and molecular level.

**Content:** This module will examine the ways in which energy metabolism is regulated during different types of physical activity and the factors limiting energy provision. The module is concerned with the hormonal and metabolic responses to exercise, and how these are influenced by factors such as exercise intensity, training and diet. It provides a biochemical basis for the understanding of the causes of fatigue, the regulation of energy metabolism during exercise, the influence of nutrition, drugs, dietary supplementation and ergogenic aids on exercise performance, adaptation to training and the potential health benefits associated with a more active lifestyle. It also covers the cytokine responses to exercise and the applications of molecular biology techniques that have improved our understanding of the mechanisms of adaptation to training.

**Assessment:** Formative Assessment: 2 x 45 minute tests (50 marks each), 5 laboratory reports (50 marks each), Summative assessment: 1 x 3 hour paper. Calculation of marks: 2 tests adding 40% towards cumulative assessment mark (CAM), 5 x laboratory reports adding 60% towards CAM will be used to calculate the DP (formative assessment). Final mark: 40 % DP and 60 % exam. A 40% subminimum for the exam or component of the exam shall apply.

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.
Sport Psychology
SSBR311 W1

**Aim:** Sport Psychology is an important aspect of the programme. It helps the student in understanding mental skill training, helps with performance enhancement techniques, helps in overcoming psychological problems and gives and understanding of motor learning and variables that may affect motor learning.


**Assessment:** Assessment Tasks There will three tasks. • Seminar 1 will be presented during the lecture periods. Seminar evaluation will be based on the content of the seminar as well as the presentation. • All other details pertaining to assessments will be explained in class. Examination Guidelines: Summative Assessment. 1 x 2 hour Exam Paper. Short questions, and essay type questions. Calculation of marks CAM allocation: • Seminar – 40% • Test 1 – 30% • Test 2 – 30% • The CAM contributes towards 40% of the final mark for the module (Formative Assessment) The exam contributes 60% to the final mark (Summative Assessment) A 40% subminimum for the exam, or component of the exam shall apply.

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

Recreation
SSBR312 W1

**Aim:** To provide the student with a sound fundamental knowledge of Recreation, Play and Leisure and the management of leisure services for community development, health and wellbeing. Health benefits and physical activity are aligned with sustainable development and environmental stewardship for the preservation of open space.

**Content:** The historical and philosophical perspectives of Recreation, Play and Leisure. Management of Community Recreation programs and services on community development, improved and healthy lifestyles in Modern Society. This module will highlight the importance of a sustainable environment to ensure healthy living.

**Assessment:** Formative Assessment Tasks • Tests(50%) + Assignment(25%) + Case Study (25%) • All details pertaining to assessments will be explained in class. Summative Assessment. 1 x 3 hour Exam Paper Application and Essay type questions Calculation of marks CAM allocation: • Seminar contributes 40% to the final mark for the module (Formative Assessment) • The exam contributes 60% to the final mark (Summative Assessment.) A subminimum of 40% will apply to each component of the exam. Two tests : Test 1=25% and Test 2 =25% . Assignments =15% and Seminar Presentation =10%. Five case studies=25%

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

Rehabilitation Science
SSBR314 W2

**Aim:** To introduce the student to the basic tenets of rehabilitation. It is extremely important for the learner as it provides him/her with a holistic approach to rehabilitation. The rehabilitation of injuries forms a focal point for biokinetics.

**Content:** Phases of healing, aqua therapy, basic yoga and Tai Chi (affects and techniques), isokinetic evaluation, flexibility, plyometrics, muscular strength and endurance, principles of diagnosis, supplementary modalities and functional rehabilitation. The content is continually updated and there is an emphasis on applying the theory in a practical manner. This forms a solid foundation for post-graduate work in the biokinetic field.

**Assessment:** Formative Assessment Tasks 1 x Test (25% of CAM) 2 x posters (Both posters will account for 25% of CAM) 1 x Practical exam (50% of CAM) Summative Assessment. 1 x 3 hour exam paper Case studies and short questions Calculation of marks • The CAM contributes 40% to the final mark for the module (Formative Assessment) • The exam contributes 60% to the final mark (Summative Assessment) A 40% subminimum for the exam, or component of the exam shall apply. All other information pertaining to assessments will be explained in class

**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

Practical Component
SSBR315 W1
Aim: Acquisition of sports skills and coaching techniques for selected codes of sport. Introduce the learner to basic scientific conditioning techniques for swimming and cricket. The student will be facilitated in researching techniques for conditioning athletes involved in specific sporting codes, and will be required to apply previously learnt principles of conditioning to specific sporting codes. The student will be exposed to the gym environment and learn the correct usage of equipment and to set functional programs for various athletes.

Content: Theoretical knowledge of sports codes. Practical, “hands-on” experience of various sporting codes. Coaching and conditioning for various sports.

Assessment: Continuous Assessment: 6 x Formative assessments: Swimming (10%) + Conditioning (30%) + Cricket (30%) + Portfolio of Evidence (30%)=100%

DP Requirement: Continuous assessment, with 100% attendance of practical classes

Practical Component
SSBR316 W2  
Aim: Theoretical knowledge of group fitness activities. Practical, ‘hands-on’ experience of various activities like kettlebell, pilates and yoga. Principles of strength and conditioning previously learnt will be applied to specific sporting activities. The student will be able to design advanced strength-training programs including plyometrics, full-season conditioning and training for children and the elderly.

Content: Group Exercise Fitness: Acquisition of basic movement skills and advanced strength and conditioning techniques for group exercise classes. Conditioning: Acquisition of sports skills and coaching techniques for selected codes of sport. The student will be exposed to the gym environment and learn the correct usage of equipment and to set functional programs for various athletes.

Assessment: Continuous Assessment: 6 x Formative assessments: Conditioning (30%), Group Fitness (40%) and Portfolio of Evidence (30%)

DP Requirement: Continuous assessment, 100% attendance of practical classes

Recreation Services and Disabilities
SSBR317 W1  
Prerequisite Requirement: None

Aim: The aim of the module is to develop an understanding of people with disabilities and how recreation and leisure services contribute to the overall improvement in functioning and quality of life of the individual.

Content: The module includes a philosophical and historical background into disabilities and focuses on recreation service delivery issues and trends. It gives the learner an introduction to the field of therapeutic recreation.

Practicals: Practical work in a facility working with people with disabilities (13 weeks x 3 hours)

Assessment: Formative assessment: 2 theoretical tests of 1 hour each, 6 practical reports that include a practical/skills mark. Summative assessment: Theory - 1 x 3 hour paper. Calculation of marks: DP (cumulative assessment mark (CAM): Theory tests (60%) and practical reports (40%), together counting towards CAM. Final mark: 40 % DP and 60 % exam. A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

Functional Anatomy and Sport Injuries
SSBR319 W1  
Prerequisite Requirement: SSBR112, SSBR114

Aim: The aim of the module is to develop an understanding of functional anatomy and how this can be applied to the prevention, diagnosis and management of musculoskeletal injuries or disorders associated with physical activity, sport and exercise. The module will provide a clear conception of how the components of the musculoskeletal system coordinate to produce movement and adapt to the strain of everyday physical activity, sport and exercise.

Content: • Basic composition and function of the musculoskeletal system; • Mechanical concepts and principles that underlie human movement; • Functional anatomy of the skeletal, connective tissue, articular, and neuromuscular systems; • Structural adaptations of musculoskeletal components; • The effect of aging on muscle function; and • The etiology of musculoskeletal disorders and injuries.
Practicals: Practical laboratory work (6 x 3 hour labs) will be performed in the Human Performance Laboratory and Biokinetics Clinic using biomechanical video analysis (Dartfish), electromyography (EMG), gait cycle and foot pressure analysis equipment (Tekscan) as well as Tendo Weightlifting Equipment.

Assessment: Formative assessment: 2 theoretical tests of 60 min (2 hours) each, 6 laboratory reports that include a practical /skills mark. Summative assessment: Theory - 1 x 3 hour paper. Calculation of marks: DP (cumulative assessment mark (CAM): Theory (50%) and laboratory reports (50%) tests, together counting towards CAM. Final mark: 40 % DP and 60 % exam. A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP

Research Methods & Statistics
SSBR701 W1
(26L-13T-0P-0S-52H-66R-0F-0G-3A-15W-16C)

Aim: To introduce the student to research methods and research tools, and to ways of analysing data for research.

Content: The module investigates various research methodologies, which are presented in sufficient detail so that it could be applied in research projects. Statistical methods and techniques are taught for the purpose of the analysis of research data.

Assessment: Class mark: Assessment of seminar presentations; final examination: one 3-hour written paper. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

Research Project
SSBR702 WY
(0L-10T-0P-20S-250H-0R-39F-0G-1A-30W-32C)

Aim: To provide the student with an opportunity to demonstrate competence in applying research methods and data analysis through the formulation and presentation of a research project.

Content: This will be based on the student's field of specialization. The topic must be approved by the Discipline and the Faculty REHDC committee.

Assessment: Examination Guidelines: Summative Assessment. Students must hand in two copies (1 soft and 1 hard bound) of the project by the due date. Calculation of marks The research project will be examined on the following guidelines: • Content: 50% • Presentation: 10% • Analytical analysis: 25% • Technical Details: 15% A research project that is assessed as unsatisfactory may be referred back once for revision and resubmission before the last day of examinations in that semester

DP Requirement: As per faculty rules.

Exercise Science
SSBR703 W1
(26L-0T-30P-15S-36H-40R-10F-0G-3A-13W-16C)

Aim: To give learners an understanding of the scientific principles of exercise testing and prescription. To provide them with competence in conducting fitness assessments as well as planning and designing and executing exercise programmes for various populations. To equip the learner with skills and knowledge of advanced testing methods and exercise prescription. To encourage research into current trends of exercise testing and exercise prescription.

Content: Scientific principles related to exercise testing and prescription for various populations. Aetiology and risks related to various chronic diseases and how exercise may positively impact on each disease state as well as the exercise prescription thereof.

Practicals: Practical application of scientific principles for exercise testing and prescription. Each session in the lecture schedule will be accompanied by a practical session relating to the topic covered. Practical sessions are used at the beginning of the semester to re-iterate basic standardized fitness test batteries, as a refresher to equip students to engage in testing of sports teams and members of the Discipline of Sport Science Health and Fitness Facility. Practical sessions are incorporated during the semester in conjunction with the theoretical aspects. The mode of delivery includes lectures, seminars and practicals. Attendance = 75% Learners are expected to research current literature especially journal articles, in groups, for seminar presentations. Learners can expect: • Input and assistance during the preparation and planning of the seminar presentations. • Individual assistance if required, outside lecture time

Assessment: Formative Assessment: 1 theoretical and 1 practical test of 2 hours each (60% contribution to CAM) 1 x seminar presentation (20% contribution to CAM) 1 x assignment (20% contribution to CAM) Seminar evaluation will be based on the content of the seminar as well as the presentation. Summative Assessment. 1 x 3 hour Exam Paper,
Calculation of marks CAM: Test s– 60% contribution, Assignment – 20% contribution, Presentation – 20% contribution. The CAM contributes 40% to the final mark for the module (Formative Assessment). The exam contributes 60% to the final mark (Summative Assessment). A final mark of 50% is required to gain credit for the module. A 40% subminimum for the exam, or component of the exam shall apply.

**DP Requirement:** AA 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

**Students selecting Exercise Science will be required to complete an internship of at least 120 hours.**

**Exercise Physiology**  
SSBR704 W2 (40L-8T-0P-17S-82H-10R-0F-0G-3A-13W-16C)  
**Aim:** To introduce students to advanced research in exercise physiology and its application to health promotion and sport performance  
**Content:** Effects of acute and chronic exercise on the body, including cardiorespiratory and neuromuscular adaptations. Understanding different models used to explain performance limitations and adaptation during exercise and sports performance. Effect of environmental changes, including heat, cold and altitude on exercise performance. Hormonal responses to exercise. Gender and aging differences in exercise and sport. Understanding overtraining, nutrition, hydration and supplementation in exercise and sport.  
**Assessment:** Formative Assessment Tasks 5 mini assignment and 1 test of 2 hours The average of all assessments is calculated for the CAM. Summative Assessment: 1 x 3 hour written paper Questions will include both short questions and essay question, with essay type questions Constituting 80% of the paper. Marks are awarded for application to the given question in a logical order of occurrence. Calculation of Marks The average of all assessments are calculated for the CAM The CAM contributes towards 40% of the final mark for the module (Formative Assessment) The exam contributes 60% to the final mark (Summative Assessment) A final mark of 50% is required to gain credit for the module. A 40% subminimum for the exam or component of the exam shall apply.  
**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

**Adapted Physical Activity**  
SSBR706 W2 (26L-13T-13P-10S-41H-44R-10F-0G-3A-15W-16C)  
**Aim:** A detailed knowledge of exceptional learners and current research trends.  
**Content:** Detailed research reviews of selected disabilities, measurement and appraisal, affective considerations, perceptual-motor development and work with assistive devices.  
**Practicals:** Teaching techniques through practical experiences.  
**Assessment:** Formative assessment -2 seminar presentations and 1 test. The average of all assessments are calculated for the CAM. Summative Assessment: The CAM contributes towards 40% of the final mark for the module The exam contributes 60% to the final mark. A final mark of 50% is required to gain credit for the module. A subminimum of 40% for all components of the exam shall apply.  
**DP Requirement:** A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

**Biokinetics 1**  
SSBR708 W1 (45L-0T-45P-4S-28H-28R-0F-6G-4A-15W-16C)  
**Aim:** To make students competent in diagnosing and rehabilitating patients with orthopaedic problems. To equip students with skills in the field of administration, chronic disease, sport injuries and orthopaedic rehabilitation.  
**Content:** Administrative concerns with respect to biokinetic practices. The principles of rehabilitation for chronic diseases. Aspects of sport injuries and orthopaedic rehabilitation.  
**Practicals:** 45 hours in a clinical setting. Practical – 4 hours per week for 13 weeks.  
**Assessment:** Seminar presentations; final examination: one 3-hour written paper. A 40% subminimum for the exam, or component of the exam shall apply.  
**DP Requirement:** Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

**Biokinetics 2**  
SSBR709 W2 (45L-0T-44P-3S-30H-28R-0F-6G-4A-15W-16C)
Aim: To make students competent in diagnosing and rehabilitating patients with orthopaedic problems.

Content: The principles of the diagnosis and rehabilitation of patients with orthopaedic problems.

Practicals: 45 hours in a clinical setting. Practical – 4 hours per week for 13 weeks.

Assessment: Class mark: Seminar presentations and an assignment; final examination: one 3-hour written paper. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

Leisure Services
SSBR710 W2

Aim: A detailed study of the repositioning of Leisure Services in communities based on a needs analysis, and the benefits based marketing strategy.

Content: Leisure and Recreation as a multifaceted delivery system. Specialised areas of Recreation and Leisure. Community based Programming.

Assessment: Class mark: Seminar presentations, 3 X written tests of 20 minutes each and the evaluation of a community based group project; final examination: one 3-hour written paper. A 40% subminimum for the exam, or component of the exam shall apply

DP Requirement: Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

Leisure Management
SSBR711 W1

Aim: Introduction to Leisure management planning, marketing and establishing the need for community based recreation programs.

Content: Develop a personal philosophy of Recreation through an understanding of the early history of recreation and leisure. Understanding Leisure and Peoples Needs in the Modern Society. Explain Recreation planning and management of community based recreation programs using the benefits based marketing approach.

Assessment: Class mark: Seminar presentations, 3 X written tests of 20 minutes each and the evaluation of a community based group project; final examination: one 3-hour written paper. A 40% subminimum for the exam, or component of the exam shall apply

DP Requirement: Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

Internship
SSBR712 WY

Aim: To equip students with the skills to apply the theoretical knowledge and the principles of exercise prescription and testing to varied populations and disease states as well as orthopaedic rehabilitation principles.

Content: Practical internship at sites in the community, with supervision of progress. Students will be trained in the practical application of knowledge learnt related to orthopaedic rehabilitation, chronic disease rehabilitation and exercise prescription and design for healthy and chronic-disease patients.

Practicals: This is essentially a practical/clinical module, with students being supervised on an ongoing basis.

Assessment: A 3-hour practical examination. A 40% subminimum for the exam, or component of the exam shall apply.

DP Requirement: Satisfactory attendance of scheduled meetings, and a class record mark of 40% or more.

Internship
SSBR713 WY

Aim: To equip students with the skills to apply the theoretical knowledge and the principles of exercise prescription and testing to improve the health and performance of apparently health individuals, various populations (including children, adolescents, females and the aged), and sportsmen/women

Content: Exercise testing and interpretation for apparently healthy individuals, special populations and sportsmen/women Practice and principles of strength and conditioning training for apparently healthy individuals, special populations and sportsmen/women.

Practicals: Practical internship (120 hours) in the Discipline of Sport Science’s Health and Fitness Facility and externship (30 hours) in the community shadowing strength and conditioning specialists connected with various professional sports teams, with supervision of progress.
Assessment: CAM: 40% - Case study logbook - 40% + Supervisor reports 5% + 3 multiple choice tests 40% + practical test 15%. Final mark: 60% - 3-hour practical examination

DP Requirement: 75% - attendance 100% completion of internship and externship hours CAM - 40%

Internship
SSBR714 WY

Aim: This module allows the student to achieve 320 hours of field work experience in an appropriate professional recreation agency or organisation. Students graduating shall demonstrate knowledge of the scope of the recreation profession, professional practice, and leadership. Upon completion of the module students shall demonstrate the ability to design, implement, and evaluate recreation, park resources, leisure, and service delivery to provide human experiences that embrace health and wellbeing, personal and cultural dimensions of diversity. The student will work under the supervision of the agency appointed for the internship program.

Content: Students will be involved in experiential learning in an externship program at various sites under the supervision of the lecturer and appointed external agents. Students will be trained in a practical setting to implement the knowledge gained in recreation programming, management and the implementation of leisure services to meet the needs of a diverse range of special groups in the population.

Practicals: The student will be required to complete 160 hours in a community based setting working with community based organisations to present recreation programmes to a variety of groups in the community. The student will be required to complete 160 hours in the public service involving administrative and management responsibilities.

Assessment: Students performance will be rated by the agency and the academic supervisor. Internship students will be graded according to work performed during each semester of field work. The student's final grade by the university supervisor will be based upon the following: o 45% = Work experience and Leadership (to be based on final evaluation) o 15% = Professional Attitude o 60% = Total

DP Requirement: CAM 40% attendance 75%

Clinical Sciences Studies 1
SSBR715 W1

Aim: The purpose of this module is to provide specialized knowledge on clinical exercise programming in the educational preparation of Biokinetics practitioners. This module provides the learner with the knowledge and skills to understand and apply the benefits of exercise as a therapeutic modality among clinical diseased populations and across the lifespan of individuals.

Content: Understanding the epidemiology and pathophysiology; clinical exercise physiology; exercise testing and screening; and exercise prescription and programming of Neuromuscular and Musculoskeletal disease conditions.

Assessment: Tests - 50% of CAM Seminars - 50% of CAM CAM - 40% of Final Mark Exam - 60% of Final Mark A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: 40% - Seminars, Tests, 75% - Attendance

Clinical Sciences Studies 2
SSBR716 W2

Prerequisite Requirement: None

Aim: The purpose of this module is to provide specialized knowledge on clinical exercise programming in the educational preparation of Biokinetics practitioners. This module provides the learner with the knowledge and skills to understand and apply the benefits of exercise as a therapeutic modality among clinical diseased populations and across the lifespan of individuals.

Content: Understanding the epidemiology and pathophysiology; clinical exercise physiology; exercise testing and screening; and exercise prescription and programming of Metabolic, Neoplastic, Immunologic, & Hematological Conditions and Special Cases:

Assessment: Tests - 50% of CAM Seminars - 50% of CAM CAM - 40% of Final Mark Exam - 60% of Final Mark A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: 40% - CAM 75% - Attendance

Leisure Program Delivery
SSBR720 W2
Health Sciences

Prerequisite Requirement: None

Aim: The purpose of the module is to provide learners with the knowledge to conceptualise, develop and implement recreation programs to meet the needs of various population groups. Students will be able to apply techniques of program evaluation which measure service effectiveness and the extent to which organisational goals have been met.

Content: Foundations of Leisure Programming Planning preparations Program implementation Program evaluation

Assessment: 2 X Tests: Test 1 = 20% Test 2 = 20% Written project = 20% 2 X Journal Article Review: Presentation 1 = 10% Presentation 2 = 10% 4 xCase Studies = 20% Exam - 60% A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: 40% CAM 75% Attendance

Lab Tech in Sport Sc & Exercise Physiology
SSBR734 W2

Prerequisite Requirement: None

Aim: The aims of this module are to provide opportunities to develop competency in a wide range of laboratory and research techniques for the study of human physiology during exercise and to prepare students to undertake laboratory-based research in these areas.

Content: Calibration methodology Blood biochemistry, exercise tests and safety Assessment of functional and aerobic capacity during physical effort Assessment of hydration and energy expenditure Metabolic responses to exercise and food intake. Application of a variety of techniques to simple research questions, data handling, analysis and presentation.

Practicals: Practical laboratory work will be performed in an Exercise Physiology laboratory using the appropriate exercise physiology testing equipment

Assessment: CAM: 40% of - 1 theoretical and 1 practical test of 2 hours each, 6 laboratory reports. Final: 60% of - Theory - 1 x 3 hour paper, Practical -1 x 3 hour paper A 40% subminimum for the exam or component of the exam shall apply.

DP Requirement: A 75% attendance of lectures and practical classes and a continuous assessment mark (CAM) of at least 40% is required for a student to qualify for a DP.

General Surgery

General Surg Clinical & Prof Prac 1
SURG8A5 MC

Prerequisite Requirement: None

Prerequisite Modules: None

Corequisite: None

Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

Content: Anatomy, physiology, pathology and pharmacology relevant to the practice of operative surgical care; Principles of surgical care common to all surgical disciplines, and of orthopaedic, neurosurgical, urological, plastic and general and cardiothoracic surgical care.

Practicals: Students must be in an approved registrar's post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Four 3-hour written papers, Two viva voce examinations. Each component needs to be passed separately.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.
General Surg Clinical & Prof Prac 2
SURG8A6 MC

Prerequisite Requirement: None
Prerequisite Modules: SURG8A5MC
Corequisite: None

Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.

Content: The theory and practice of general and paediatric surgery including the relevant applied basic sciences, anatomy, physiology and pathology.

Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subjective to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Two 3-hour written paper including a written viva voce for each paper; Paper 1 – general surgical and surgical pathology theoretical + viva voce; Paper 2 – anatomy and operative surgery theoretical + viva voce; Clinical cases; OSCE The weighting of the examination is: Paper 1 (including viva voce) – 25%; Paper 2 (including viva voce) – 25%; Clinical cases – 30%; OSCE – 20%

DP Requirement: 70% attendance at designated learning activities; Satisfactory completion of a portfolio and/or logbook.

Pharmacology
TAMM21N MY

Aim: The course introduces students to the main concepts in clinical pharmacology. Although the course is offered by the pharmacists and physicians (with post graduate training in clinical pharmacology), focus is on practical and clinical pharmacology relevant to nurses.

Content: Topics covered include; general pharmacology principles (pharmacokinetics and pharmacodynamics), dosage calculations, drugs used for management of diseases affecting main systems (cardiovascular, respiratory, gastrointestinal tract, central and peripheral nervous, reproductive, etc.), antimicrobials, anthihelminthics, cytotoxics, antidiabetic agents, steroids and drug legislations relevant to nurses.

Practicals: None
Assessment: Assessment is in a form of; (1) Formative assessments (tutorials); Lecturers provide tutorials from time to time for students. These tutorials are not compulsory and do not contribute towards DP or Exam. (2) Two class tests; The first test is written in May and the second one in August/September. Test 1 contributes 10% towards final exam mark. Test 2 contributes 20% towards final exam mark and it is cumulative; meaning, the work covered in test 1 is also assessed in test 2. (3) Project (assignment). An assignment is aimed mainly at helping students with more practical work; dosage calculations and/or handling of injectable antibiotics in the wards. This project contributes 10% towards final mark, if the mark obtained is higher than that obtained in test 1. (4) Examinations; Examination, which contributes 70% towards the final mark, is written at the end of the year (November) and covers all topics done during the year. (5) Supplementary Examination; This is written by students who qualify to write supplementary examinations in accordance with rule R18(1)(a)(2): 2003

DP Requirement: Rule NURS4 (b) shall apply - candidates must attend at least 75% of all classes, 100% in the clinical setting, save those from which they have been officially excused.

Economic Analysis in Medicines Selection
TAMM8A1 MC

Aim: To provide an introduction to basic methodologies of pharmaco-economic analysis, as applied to the process of medicines selection analyses.
Content: Computer skills (basic, as well as the use of the Internet, search engines, literature searches and relevant software), cost-minimization analyses, cost-effectiveness analyses, cost-benefit analyses, cost-utility analyses, choice of method in different selection scenarios, critical appraisal of pharmaco-economic studies

Assessment: Presentation of a report on a topic allocated by the Course Co-ordinator (20%) and a final 2-hour written exam (80%).

DP Requirement: None

Measuring Medicines Utilisation
TAMM8B1 MC

Prerequisite Requirement: Health Measurement (analytic)

Aim: To provide an introduction to basic methodologies of pharmacoepidemiology and drug utilisation studies, including the use of defined daily dose methodologies.

Content: Computer skills (basic, as well as the use of the Internet, search engines, literature searches and relevant software), types of drug utilisation information, levels of aggregation and methods of retrieval, drug use evaluations, drug classification systems and defined daily dose methodologies, critical appraisal of drug utilisation studies

Assessment: Group presentations (20%); individual assignments (30%); and a summative 2-hour written examination (50%).

DP Requirement: None

P-drug Basic Concepts
TAMM8C1 MC

Prerequisite Requirement: Public Health Policy and Legislation, Economic Analysis in medicines selection; Measuring medicines utilisation; Pharmokinetic principles and application; Principles of evidence-based medicine; Promoting quality use of medicine

Aim: To provide an introduction to basic methodologies of P-drug methodology as outlined in the WHO publication "A Guide to Good Prescribing", by addressing clinical scenarios and areas of rational pharmacotherapy.

Content: P-drug methodology - assessing the suitability of different medicines for a particular condition, in the individual patient using the P-drug methodology. Application in two selected conditions

Assessment: Group presentations (20%); individual assignments (30%); and a summative 5 hours, open book, written paper, with access to Internet resources (50%).

DP Requirement: None

P-drug Clinical Experience O1
TAMM8D1 MC

Prerequisite Requirement: P-drug concepts

Aim: To extend candidates’ mastery of the P-drug methodology as outlined in the WHO publication “A Guide to Good Prescribing”, by addressing clinical scenarios and areas of rational pharmacotherapy of a more complicated nature.

Content: P-drug methodology. Application in two selected conditions.

Assessment: Group presentations (20%); individual assignments (30%); and a summative 5 hours, open book, written paper, with access to Internet resources (50%).

DP Requirement: None

P-drug Clinical Experience O2
TAMM8E1 MC

Prerequisite Requirement: P-drug Concepts

Aim: To revise and update on issues related to medicines policy and law. To consider ethical issues related to clinical research and the provision of pharmacotherapy. To extend the candidate’s mastery of the P-drug methodology as outlined in the WHO publication “A Guide to Good Prescribing”, by addressing clinical scenarios and areas of rational pharmacotherapy of a more complicated nature.

Content: Medicines policy, legislation and ethics. P-drug methodology - Assessing the suitability of different medicines for a particular condition, in the individual patient and at a population level, using the P-drug methodology. Application in two selected conditions.
Assessment: Group presentations (20%); individual assignments (30%); and a summative 5 hours, open book, written paper, with access to Internet resources (50%).

DP Requirement: None

Pharmacokinetic Principles & Application
TAMM8F1 MC
Prerequisite Requirement: Health measurement (Analytic)
Aim: To provide the necessary skills to apply pharmacokinetic and pharmacodynamic principles in the clinical management of pharmacotherapy for adult and paediatric patients, and in particular to the following groups of special cases: pregnant and lactating patients, neonates and the elderly, patients with renal and/or hepatic impairment, immunocompromised patients.
Content: Basic pharmacokinetic principles and application. Drug use in: pregnant and lactating patients, neonates and the elderly, patients with renal and/or hepatic impairment, immunocompromised patients.
Assessment: Group presentations (20%); individual assignments (30%); and a summative 2-hour written examination (50%).

DP Requirement: None

Principles of Evidence-based Medicine
TAMM8G1 MC
Prerequisite Requirement: Health Measurement (Analytic)
Aim: To introduce basic methodologies of evidence-based medicine, including computer skills (basic, as well as the use of the Internet, search engines, literature searches and relevant software), research trial design and ethics, evidence-based medicine concepts.
Content: Research trial design and ethics, evidence-based medicine techniques, critical appraisal of research studies
Assessment: Group presentations (20%); individual assignments (30%); and a summative 2-hour written examination (50%).

DP Requirement: None

Promoting Quality use of Medicine
TAMM8H1 MC
Prerequisite Requirement: Health Measurement (Analytic)
Aim: To introduce basic methodologies of promoting the rational or quality use of medicines, including determinants of prescribing and dispensing behaviour, medicines use in the community and methods of addressing identified problems.
Content: Computer skills (basic, as well as the use of the Internet, search engines, literature searches and relevant software), assessment of determinants of prescribing and dispensing behaviour and medicines use in the community, methods of promoting the rational or quality use of medicines, including the development and use of standard treatment guidelines.
Assessment: Group presentations (20%); individual assignments (30%); and a summative 2-hour written examination (50%).

DP Requirement: None

Urology

Urology Clinical & Prof Prac 1
UROL8A5 MC
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None
Aim: The main aim of this module is: To allow the student to attain competency in the knowledge, skills and behaviours necessary for effective clinical practice as a specialist and thus render the student eligible for registration with the HPCSA in the specialist category.
Content: Urological pathology Theory and practice of urology.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.

Assessment: Formative: Students are subject to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 2 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Written examination: One 3-hour paper in pathology, Two 3-hour paper in urology, Oral examination in pathology and urology, Practical and Clinical examination in urology. Each component has to be passed separately.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook

Urology Clinical & Prof Pract 2
UROL8A6 MC
(20L-96T-0P-48S-288H-80R-1910F-36G-222A-90W-270C)
Prerequisite Requirement: None
Prerequisite Modules: UROL8A5
Corequisite: None

Aim: The main aim of this module is: To develop competence in sciences which underpin clinical practice in the discipline. To allow the student to attain an intermediate level of competency in the knowledge, skills and behaviours appropriate to effective clinical practice as a specialist, which will be developed further in Clinical and Professional Practice 2.

Content: Anatomy, physiology, pathology as well as the principles of surgery in general.
Practicals: Students must be in an approved registrar’s post or be recognised as a supernumerary registrar on a full time basis. Students are permanently based in health care facilities for the duration of the module.
Assessment: Formative: Students are subject to continuous assessment by their clinical and academic supervisors. They are interviewed at the end of each clinical rotation and are interviewed twice-yearly by the Head of Discipline or designated senior academic staff. All assessments are recorded in a portfolio of learning. Summative: The Part 1 examination of the relevant constituent College of the College of Medicine of South Africa (CMSA) constitutes the summative assessment for this module. The assessment is constituted as follows: Three 3-hour written papers on the following subjects anatomy, physiology and pathology, Oral examination on each of the 3 basic sciences i.e. anatomy, physiology and pathology. Each component needs to be passed separately.

DP Requirement: 70% attendance at designated learning activities. Satisfactory completion of a portfolio and/or logbook.

Virology

Virology Clinical and Professional Practice 1
VIGY8B2 MC
(0L-480T-100P-0S-320H-80R-1570F-0G-150A-90W-270C)
Prerequisite Requirement: None
Prerequisite Modules: None
Corequisite: None

Aim: To provide registrars with a sound grounding in basic sciences underlying the theory and practice of Virology, to introduce them to the theory and practice of this specialty and strengthen their grasp of professional ethics and professional behaviour.

Content: Basic Science in Virology, Epidemiology, Immunology, Vaccinology, Pharmacology, Laboratory Methods and Practice, Clinical Virology with a focus on specific viruses.

Practicals: None
Assessment: Formative: All continuous assessments are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do 2 three-hour written paper, one practical examination and one oral examination. (100%)

DP Requirement: Satisfactory assessment and completion of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.
Virology Clinical and Professional Practice 2
VIGY8B3 MC

Prerequisite Requirement: None
Prerequisite Modules: VIGY8B2
Corequisite: None

Aim: The aim of the module is to prepare the student to attain competency in the knowledge, skills and behaviours to function effectively in the area of clinical virology at a specialist level without supervision.

Content: The structure and replication of viruses. The diseases which they produce, including epidemiology, immunology of virus diseases. Laboratory diagnosis and practice of clinical virology.

Practicals: None

Assessment: Formative: All continuous assessments are formative only. A professional portfolio is assessed at the end of each year, and forms the basis of the progression decision. Summative: At the end of the module, students do two three-hour written papers, 3 day practical exam and 1 oral exam (100%).

DP Requirement: Satisfactory assessment of the Professional Portfolio annually. The Professional Portfolio addresses the full spectrum of competence – academic, clinical and professional.
MODULES FROM OTHER COLLEGES

In the College of Agriculture, Engineering and Science

Geography

Offered in the SCHOOL OF AGRI, EARTH & ENV SC

Human Environments
GEOG110 H1 P1 W1 (39L-8T-30P-0S-67H-10R-0F-0G-6A-13W-16C)

Aim: To introduce students to basic concepts in human geography.

Content: The central themes in this module are society-space and nature-society linkages. These are grounded in the African social, economic and political context and further explored in relation to processes of globalisation and uneven development. Fundamental concepts are: global/local interactions at different scales; spatial variation and spatial interaction; individual agency in the face of larger economic and social structures; human-environment interactions at different scales. Practicals form an integral part of the theory and utilise map skills.

Assessment: Class essay (15%), theory test (15%), practical test (20%); 3 h theory exam (50%).

DP Requirement: 80% attendance at practicals and tutorials; 40% Class mark.

Geographies of Urban and Rural Change
GEOG220 H2 P2 W2 (39L-5T-28P-0S-61H-20R-0F-0G-7A-13W-16C)

Prerequisite Modules: GEOG110.

Aim: To introduce students to spatial transformations in urban and rural contexts in southern Africa.

Content: Spatial transformations in urban and rural contexts are explored in light of appropriate theory drawn from urban, economic, cultural and political geography. Regional change is interpreted in the context of post-apartheid planning and development practice, as well as in the global economy. Particular attention is paid to contested urban landscapes and new urban forms; the impact of land reform initiatives & the spatial impacts of development theory and planning.

Assessment: Practicals/Assignments (20%), Tests (30%); 3 h exam (50%).

DP Requirement: 80% attendance at practicals and tutorials; 40% Class mark.

Only for students majoring in GEOG/ENVS or an appropriate programme with the module as core subject to the approval of the Academic Leader.

Tourism Studies
GEOG301 H2 P2 (27L-0T-48P-0S-63H-17R-0F-0G-5A-13W-16C)

Prerequisite Modules: GEOG220

Aim: To introduce students to conceptual and theoretical aspects of leisure, recreation and tourism in the context of planning for sustainable tourism development.


Practicals: Collection and analysis of data, report presentation and field excursion.
Syllabi

Assessment: Tests (25%), assignments (5%), practicals (20%); 3 h exam (50%).
DP Requirement: 80% attendance at all academic contact activities; 40% class mark.
Students may be required to contribute to the costs of field trips.

Advanced Tourism Studies
GEOG744 HC PC (OL-0T-38P-30S-62H-27R-0F-0G-3A-13W-16C)

Prerequisite Requirement: Entry into an appropriate Honours programme.
Aim: To develop critical expertise in the analysis of tourism issues in the developing world.
Content: Concepts and theoretical aspects of tourism, the production of tourism spaces, places and forms, globalization and tourism, trends in tourism development, tourism impacts, tourism and sustainable development and tourism in Southern Africa.
Practicals: Workshops, projects, and field excursions.
Assessment: Term paper (20%), assignments (20%), seminar presentations (10%); 3 h exam (50%).
DP Requirement: 80% attendance at all academic contact activities; 40% class mark.
Offered in either Semester 1 or 2. Students may be required to contribute to costs of field trips.

Chemistry

Offered in the SCHOOL OF CHEMISTRY & PHYSICS

Special Science
CHEM100 H1 (38L-15T-0P-0S-71H-30R-0F-0G-6A-13W-16C)

Aim: To introduce nursing students to basic chemistry and physics relevant to their discipline.
Content: Chemistry: Units of measurement, properties of matter, radioactivity, chemical bonding and chemical reactions, the gaseous state, solutions, suspensions, colloids and emulsions, acids, bases and salts, organic chemistry, carbohydrates, lipids and proteins. Physics: Mechanics, statics, torque, equilibrium, work, energy, power, elastic and thermal properties of matter, mechanics of fluids, pressure, density, viscosity, cohesion, waves, sound light, nerve conduction, ionizing radiation, ultrasound, x-ray and radionuclide imaging.
Assessment: Tests, quizzes or assignments (33%); 3 h exam (67%).
DP Requirement: Class mark 40%, 100% attendance at tests.
For students in the School of Nursing only.

General Principles of Chemistry
CHEM110 PB WB (36L-9T-36P-0S-44H-30R-0F-0G-5A-13W-16C)

Aim: To introduce the principles and practice of chemistry.
Content: Introduction to: quantitative chemistry, types of reaction, atomic spectroscopy, electronic configuration, bonding, gases, chemistry of main group elements.
Practicals: Volumetric analysis, shapes of molecules, qualitative analysis.
Assessment: Tests (9%), quizzes (5%), practical reports (19%); 3 h exam (67%).
DP Requirement: Class mark 40%, 80% attendance at practicals, 100% attendance at tests.
Credit may not be obtained for both CHEM110 and either of CHEM161 or CHEM195.

Chemical Reactivity
CHEM120 P2 W2 (36L-9T-36P-0S-44H-30R-0F-0G-5A-13W-16C)

Prerequisite Requirement: At least 40% in CHEM110.
Aim: To present the physical and descriptive inorganic and organic aspects of introductory chemistry.
Content: Phase equilibria and colligative properties, buffers, electrochemistry, nomenclature, thermochemistry, kinetics, and gas and solution equilibria. Introduction to organic chemistry, formation of different organic functionalities and reactions thereof, stereochemistry, reaction mechanisms.
Practicals: Physical measurements, organic techniques.
Assessment: Tests (9%), quizzes (5%), practical reports (19%); 3 h exam (67%)
DP Requirement: Class mark 40%, 80% attendance at practicals, 100% attendance at tests. Credit may not be obtained for both CHEM120 and either of CHEM171 or CHEM196.

Physics

Offered in the SCHOOL OF CHEMISTRY & PHYSICS

Intro Physics for Life Sciences & Agriculture

PHYS131 P1 W1

Aim: To introduce basic concepts in mechanics, geometrical optics, and thermal physics.


Assessment: Tests (24%), practicals (6%); 3 h exam (70%).

DP Requirement: Class mark 40%, 100% attendance at lectures, tutorials and practicals.

Note: For the purposes of serving as prerequisite for other modules, a result of 60% or more will be regarded as equivalent to PHYS110.

Electromagnetism & Modern Phys for Life Sc

PHYS132 W2

Prerequisite Requirement: 40% in PHYS131 or PHYS110.

Aim: To introduce the basic concepts of electricity, magnetism, physical optics and modern physics.


Assessment: Tests (24%), practicals (6%); 3 h exam (70%).

DP Requirement: Class mark 40%, 100% attendance at tests, 80% attendance at lectures, tutorials and practicals.

Note: For the purposes of serving as prerequisite for other modules, a result of 60% or more will be regarded as equivalent to PHYS120.

Physics for Optometry

PHYS139 W1

Aim: To introduce basic concepts in mechanics, geometrical optics, and physical optics.

Content: Mechanics: Scalars and vectors, 1-D kinematics, equilibrium and dynamics, 2-D kinematics, rotational motion, work, energy, power, momentum, simple harmonic motion, spring systems. Optics: Reflection and refraction of light, image production, lens maker’s equation, defects of the eye, myopia, hypermetropia, wave optics, polarization, interference, diffraction, thin lenses, optical instruments.

Assessment: Tests (24%), practicals (6%); 3 h exam (70%).

DP Requirement: Class mark 40%. Attendance at all tests; at least 80% attendance at lectures, tutorials and practicals.

Note: Offered to students in the College of Health Sciences only.
Biochemistry

Offered in the SCHOOL OF LIFE SCIENCES

Biochemistry and Microbiology for Optometry
BIMI200 W1
Tut: (30L-9T-36P-0S-46R-0F-0G-15A-13W-16C)
Prerequisite Modules: BIOL101 or 103, CHEM110.
Aim: To provide an overview of Biochemistry & Microbiology for Optometry students.
Practicals: Carbohydrates, proteins and lipids. Aseptic technique, ubiquity of microbes, equipment contamination, microscopic observation of microorganisms, microbial control: antibiotic sensitivity, sterilization and disinfection.
Assessment: Practical reports (5%), theory tests (35%), 2 theory of practical tests (10%), 3 h exam (50%).
DP Requirement: Attendance at 80% of tutorials and 100% of tests.
For students in the College of Health Sciences only.

Biochemistry for Optometry
BIOC200 W1
Tut: (39L-10T-0S-21H-7R-0F-0G-3A-13W-16C)
Prerequisite Modules: CHEM110, 120, BIOL101.
Aim: To provide an overview of Biochemistry to Optometry students.
Assessment: Class Tests (50%); 2 h exam (50%).
DP Requirement: Attendance at 100% of tests and 80% of tutorials.
For students in the College of Health Sciences only.

Biological Sciences

Offered in the SCHOOL OF LIFE SCIENCES

Introductory Biology for Health Sciences
BIOL103 W1
Tut: (39L-10T-39P-0S-60H-5R-0F-0G-7A-13W-16C)
Aim: To introduce students to a range of biological topics pertinent to the health sciences.
Content: This module comprises three themes: history and diversity of life, basic toxicology, cellular biology, cytology and genetics. Where possible, students are shown how these topics apply to real-life situations.
Practicals: Viruses, Archaea, Bacteria, Eukaryotes, Protista, Fungi, Rhodae, Stromenopilae, spore-producing and seed-producing Plantae, biomolecules, mitosis and meiosis, membrane structure and function, structure of plant and animal cells, Hardy-Weinberg principle.
Assessment: Theory tests (20%), practical tests (15%); practical reports (15%); 3 h theory exam (50%).
DP Requirement: Attendance at 80% of practicals and 100% of tests.
Service module for College of Health Sciences, not available in the College of Agriculture, Engineering and Science. Subminimum to pass: 40% in exam.
Microbiology

Offered in the SCHOOL OF LIFE SCIENCES

Microbiology
MICR182 W2

Prerequisite Modules: CHEM110, BIOL101.
Corequisite: CHEM120.

Aim: To provide an overview of the basic concepts of microbiology and the role of microbes in ocular disease.


Assessment: Theory test (50%); 2 h exam (50%).

DP Requirement: Attendance at 80% of practicals and 100% of tests.

Mathematics

Offered in the SCHOOL OF MATHS, STATS & COMP SC

Mathematics & Statistics for Natural Sciences
MATH133 P1 W1

Prerequisite Requirement: Higher Grade E or Standard Grade B for Matric or NSC Level 4 Maths.
Aim: To equip students with mathematical tools needed in the life and physical sciences, and to study practical applications of mathematics to these fields.

Content: Basic algebra, solving equations and inequalities, functions and translations. Curve sketching. Binomial theorem. Limits and continuity. Definition and techniques of differentiation (including exponential, log and trigonometric functions); the first derivative test; concavity; the second derivative test; absolute extrema; applications. Basic antiderivatives, Fundamental theorem of Calculus. Matrices, inverse of a matrix, solving systems of linear equations.

Assessment: Class tests and/or assignments (33%); 3 h exam (67%).

DP Requirement: 35% Class mark, 80% attendance at lectures & tutorials.
Credit may not be obtained for MATH133 and any of MATH105, 130, 131, 134, 195 or 197.

Mathematics for Natural Sciences
MATH150 P1 W1

Prerequisite Requirement: Higher Grade E or Standard Grade B for Matric or NSC Level 4 Maths.
Aim: To equip students with mathematical tools needed in the life and physical sciences, and to study practical applications of mathematics to these fields.


Assessment: Class tests and/or assignments (33%); 3 h exam (67%).

DP Requirement: 40% Class mark, 80% attendance at lectures and 80% completion of tutorial requirements.
Credit may not be obtained for MATH150 and any of MATH105, 130, 131, 134, 151 or 197.
In the College of Health Sciences

Community Health

Offered in the SCHOOL OF NURS & PUBLIC HEALTH

Clinical Research 02
PBHL8C2 M1 M2

Aim: The purpose of this module is to introduce the basic principles and methods of clinical epidemiology and biostatistics used in clinical research to medical practitioners registered for the Master of Medicine and Master of family Medicine to enable them to have the knowledge and skills to complete the Research Project and Dissertation required for these degrees. The focus will be on the application of these approaches to the planning and implementation of clinical research.

Content: Planning and conducting clinical epidemiological research studies: Analysing epidemiological studies; Probability distributions; Confidence intervals and “p” values; Hypothesis testing; Comparison of 2 means; Contingency tables; Pearson Correlation; Regression; Non parametric statistics; Standardisation; How to write an epidemiological research protocol; Quantitative Research; methodology: Research problem statement; Study Design; Literature review; Sampling & sample size consideration; Plan of analysis; Questionnaire development; Implementation of research; Data capture and analysis; Qualitative research methods; Manuscript writing Research funding

Assessment: Prepare a clinical epidemiological research protocol, and present it to the Bioemdical Research Ethics committee for review

DP Requirement: None

In the College of Humanities

Psychology

Offered in the SCHOOL OF APPLIED HUMAN SC

Introduction to Psychology A
PSYC101 H1 P1 W1

Aim: A general introduction to the discipline: Part One

Content: A selection of topics from: Schools of Thought in Psychology; Biological Bases of Behaviour; Cognition inter alia: perception; learning and memory; thinking and language; intelligence; Psychological Research; Organisational Psychology.

Assessment: Cumulative assessment (40%); Examination (60%)

DP Requirement: Class mark minimum of 40%.

Introduction to Psychology B
PSYC102 H2 P2 W2

Aim: A general introduction to the discipline: Part Two
Content: A selection of topics from: Human development; Personality theories; Social Psychology; Community Mental Health; Health, Risk and Coping; Psychopathology; African Psychology
Assessment: Cumulative assessment (40%); Examination (60%)
DP Requirement: Class mark minimum of 40%.

Developmental Psychology
PSYC203 H2
Aim: To introduce learners to child and adult psychosocial development with the objective of acquiring a critical and informed knowledge base from which to apply child development themes, theories and methodologies within the South African context.
Content: An understanding of the processes of psychosocial changes over the life span especially during childhood and adolescence will be the major focus, enabling the learner to contextualise other studies of human behaviour within a developmental time frame. It draws on several theories of development to introduce learners to some of the conceptual and research issues within developmental psychology.
Assessment: Cumulative assessment (40%); Examination (60%)
DP Requirement: Class mark minimum of 40%.

Managing Health Behaviour
PSYC332 W2
Aim: To provide students with an understanding of the psychosocial determinants of health and illness, adjustment to health problems and treatment adherence as well as to develop communication skills to enhance the clinical relationship.
Content: The module covers the biopsychosocial model of illness; understanding social and cultural influences on health; models of health behaviour; dynamics of health behaviour (i.e. issues of adherence/non-adherence); understanding the fundamentals of clinical communication; as well as developing skills to enhance the clinical relationship.
Assessment: Cumulative assessment (40%); Examination (60%)
DP Requirement: Class mark minimum of 40%.
Service course for the Faculty of Health Sciences
May not be offered in 2012.

Linguistics

Offered in the SCHOOL OF ARTS

Academic Learning in English
ACLE102 H1 H2
Aim: To help students to use writing as a means to become effective learners in the University environment
Content: The module introduces learners in an explicit way to the process of academic essay writing, developing their capacity to produce coherent, cohesive and well-polished texts within the context of an intellectually challenging examination of themes, which are of contemporary academic interest across disciplines.
Assessment: Class Mark (2 tests 30% and 2 Essays 35%) Class average mark 65% and Exam 35%
DP Requirement: 80% attendance and submission of all written work.
ALE is not available as an elective to students who have 128 or more credits.
Isizulu Studies

Offered in the SCHOOL OF ARTS

Academic Writing
ZULM105 H1 P1 (39L-10T-0P-0S-102H-5R-0F-0G-4A-13W-16C)
Prerequisite Requirement: IsiZulu as one of Grade 12 subjects or comparable proficiency.
Aim: To help students develop academic writing and speaking skills by actively engaging them in class presentation and essay writing skills.
Content: By the end of the semester, students should display the following: necessary essay writing skills; the ability to develop an argument; the ability to construct coherent texts; demonstrate their referencing and bibliographic skills; engage in group discussions; skills necessary for note-taking in lectures; simple research and reading skills through exposure to library information.
Assessment: Class work: 40% Examination: 60%
DP Requirement: Students must submit of all written work on time and must comply with the attendance requirements for the School of IsiZulu Studies.
ZULM105 is offered in the first semester on HC, PMB & Westville Campus. In the second semester, ZULM105 is offered on the Westville Campus only.

Basic IsiZulu Language Studies A
ZULN101 H1P1 H2P2 W1W2 (39L-10T-19P-0S-74H-5R-10F-0G-7A-13W-16C)
Prerequisite Requirement: Open to students who have not written an Nguni mother tongue Grade 12 examination.
Aim: To achieve elementary fluency in both the oral and the written language.
Content: This module introduces basic grammar, history and culture of the amaZulu. Lectures combine an academic study of IsiZulu with the use of a communicative method of language learning.
Assessment: Class work: 40% Examination: 60%
DP Requirement: Students must submit of all written work on time and must comply with the attendance requirements for the School of IsiZulu Studies.
Core module for the major in IsiZulu Studies

Sociology

Offered in the SCHOOL OF SOCIAL SCIENCES

Introduction to Sociology
SOCY101 H1 P1 (39L-5T-0P-0S-91H-20R-0F-0G-5A-13W-16C)
Prerequisite Requirement: Introduction to Sociology or The making of modern world (HIST104), or at the discretion of the Academic Leader.
Aim: An understanding of the relevance of Sociology to understanding South African society.
Content: Explore South Africa in social make up and key social issues.
Assessment: Coursework (50%), examination (50%).
DP Requirement: Minimum 40% in coursework; submission of all required tasks.
In the College of Law and Management

Information Systems & Technology

Offered in the SCHOOL OF MAN, INFO TECH &GOV

End User Computing
ISTN100 W1,W2,P1,P2 (29L-8T-20P-0S-26H-72R-0F-0G-5A-15W-16C)
Prerequisite Requirement: None
Aim: To emphasise the use of computers as integrated productivity tools and introduce end-user computing definitions and concepts.
Content: Basic end-user computing concepts. Computer hardware (input, processing, output and storage). Theory and application of systems software (operating systems) and applications software (word processing, spreadsheets, presentation graphics, database, internet and email). Information networks and data communications. Databases and database management systems.
Practicals: Computer-based exercises on the above topics.
Assessment: 2 h exam (50%), tests / assignments (50%).
DP Requirement: Students must obtain a class record of at least 40%.

Management

Offered in the SCHOOL OF MAN, INFO TECH &GOV

Management 120
MGNT102 P1 P2 W1 H2 (39L-12T-0P-0S-90H-12R-0F-0G-7A-15W-16C)
Content: The aim of this module is to provide learners with an introduction to the development of management theory, the management process, different levels of management and the business environment.
Assessment: 2 Tests(33%); 3hr Examination (67%)
DP Requirement: Students must obtain a class mark of at least 40%.