FACULTIES OF THE
UNIVERSITY OF PRETORIA

HUMANITIES
NATURAL AND AGRICULTURAL SCIENCES
LAW
THEOLOGY
ECONOMIC AND MANAGEMENT SCIENCES
VETERINARY SCIENCE
EDUCATION
HEALTH SCIENCES
ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

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FACULTY OF HEALTH SCIENCES

School of Dentistry
- Community Dentistry
- Dental Management Sciences
- Maxillofacial and Oral Surgery
- Odontology
- Oral Pathology and Oral Biology
- Orthodontics
- Periodontics and Oral Medicine
- Prosthodontics

School of Healthcare Sciences
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- Nursing Science
- Occupational Therapy
- Physiotherapy
- Radiography

School of Health Systems and Public Health
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- Public Health Medicine

School of Medicine
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- Cardiothoracic Surgery
- Chemical Pathology
- Clinical Epidemiology
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- Pharmacology
- Physiology
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- Psychiatry
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- Surgery
- Urology

Centre for Sports Sciences: Sports Medicine Division

SCHOOLS OF DENTISTRY, HEALTHCARE SCIENCES, HEALTH SYSTEMS AND PUBLIC HEALTH, MEDICINE

CENTRE FOR SPORTS SCIENCES: SPORTS MEDICINE DIVISION

NELSON MANDELA CHAIR IN PHILOSOPHY AND ETHICS OF MENTAL HEALTH

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FACULTY OF HEALTH SCIENCES

SCHOOLS OF DENTISTRY, HEALTHCARE SCIENCES, HEALTH SYSTEMS AND PUBLIC HEALTH, MEDICINE

CENTRE FOR SPORTS SCIENCES: SPORTS MEDICINE DIVISION

AND THE

NELSON MANDELA CHAIR IN PHILOSOPHY AND ETHICS OF MENTAL HEALTH

ACADEMIC PERSONNEL AS AT 30 JUNE 2013

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DEPUTY DEAN: RESEARCH
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BSc(Hons) MSc(Free State) PhD(Pretoria) Post Doct(Laval)

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SCHOOL OF HEALTH SYSTEMS AND PUBLIC HEALTH

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Sithole, M.M., BSc Dip(Mathematics) MSc(Swaziland) PhD(Curtin).....Extraordinary Lecturer

Stoltz, A.C., BSc(Hons) MSc MBChB PhD(Pretoria)....Extraordinary Lecturer
Tint, K.S., MB BS MMedSc(Rangoon) MPH(Hebrew)
MSc(Med)(Witwatersrand) ....Extraordinary Lecturer
Williams, S., BA MD(Maryland) MPH(Emory) FAAFP....Extraordinary Lecturer
Zuma,K., BSc(Ed)(Vista) MSc(Hasselt) PhD(Waikato) ....Extraordinary Lecturer
Moropeng, M.L., BSc (Medical Sciences)(Unin)
MSc (Medical Virology)(Medunsa) ....Junior Lecturer

Aerospace Medicine Division
Blunden, C.J., BSc BSc(Hons) MBChB MMed(Anaes)(Pretoria) ....Extraordinary Lecturer (Head)
Bedford, R.W., MBChB BSc(Hons)(Pretoria) ....Extraordinary Lecturer
Bogatsu, L., BSc(Edward Waters Coll,USA) MBChB(Medunsa)
MPH(Pretoria) ....Extraordinary Lecturer

Department of Public Health Medicine
Louwagie, G.M.C., MD(Louvain) DTropMed(Antwerp)
DHM(Free State) FPHM(SA) MMed(CommHealth)(Free State).....Senior Lecturer/ Medical Specialist
Moodley, S.V., MBChB(Cape Town) DMH(SA)
MMed(Publ HealthMed) DTM&H DOMH(Pretoria) ....Senior Lecturer/ Specialist
De la Querra, A.S., MBChB MFamMed
MMed(CommHealth)(Free State) FPHM(SA)
AUDOH(Free State)....Senior Lecturer
Zungu, L.M., MBChB(Cape Town) MMed(CommHealth)(Pretoria)
FCPHM(CMSA) DOMH(Pretoria) ....Senior Lecturer
Oliphant, C.E.M., MBChB MMed (Public Health)(Cape Town)
FCPHM(SA) ....Lecturer

SCHOOL OF MEDICINE

Deputy Dean:
Prof. B.G. Lindeque
MBChB(Pretoria) MMed(O et G) MD(Stellenbosch)
GKOG(SA) M.Akad.SA

Sports Medicine Division
Janse van Rensburg, D.C., MBChB MSc(Sports Medicine)
MMed(MedPhys) MD(Pretoria) FACSM ....Senior Lecturer (Head)
Cele, P., MBChB(Cape Town)....Lecturer
Grant, C.C., Nat Dip Analyt Chem(TUT) BSc(Unisa)
BSc(Hons) MSc PhD(Pretoria)....Lecturer
Gregory, A.J.M., BSc(Indiana) MBChB FAAP(Alabama) ....Extraordinary Lecturer
Collins, R.M., MBChB MSc(Sports Medicine)(Pretoria)....Extraordinary Lecturer
Mpe, M., MBChB MMed (Int Med)(Medunsa) FCP (SA) ....Extraordinary Lecturer
Oschman, Z., MBChB(Pretoria) DCH(SA)
MSc(Sports Medicine)(Pretoria)....Extraordinary Lecturer
Patricios, J., MBBCh(Witwatersrand) MMedSci(Sheffield) ....Extraordinary Lecturer
Strauss, G.L., MBChB MSc(Sports Medicine)(Free State)....Extraordinary Lecturer
Velleman, M.D., MBChB MMed(Rad)(Pretoria) FCRad(SA) ....Extraordinary Lecturer

Department of Anatomy

Bosman, M.C., BMedSci(Pretoria) BSc(Med)(Hons) MSc(Med) PhD(Medunsa) ..... Associate Professor (Head)
Steyn, M., MBChB(Pretoria) PhD(Witwatersrand) ..... Professor
Bester, M.J., BSc MSc(Pretoria) PhD(Witwatersrand) ..... Associate Professor
L'Abbé, E.N., MA(Phys Anthr) (Louisiana State Univ) PhD(Pretoria) D-ABFA (Dip American Board of Forensic Anthropology) ..... Associate Professor
Maat, G.J.R., MBChB MD PhD(Leiden) ..... Honorary Professor
Symes, S.A., A.B. Biology(Kenyon College, Ohio) PhD(Anatomy)(Tulane Univ, New Orleans) ..... Extraordinary Professor
Briers, N., BSc(Stellenbosch) MSc DTE(Pretoria) ..... Senior Lecturer
Navsa, N., BSc(Western Cape) MSc(Witwatersrand) PhD(Pretoria) ..... Senior Lecturer
Oberholtzer, N., BSc(Hons) MSc PhD(Pretoria) ..... Senior Lecturer
Oettlé, A.C., MBBCh(Witwatersrand) MSc(Anat) DTE(Pretoria) ..... Senior Lecturer
Van Schoor, A.A., BSc(MedSci) BSc(Hons) MSc(Anat) PhD(Pretoria) ..... Senior Lecturer
Asvat, R., BSc(Hons)(Natal) MSc(Witwatersrand) ..... Lecturer
Jacobs, C.J., BSc(Hons)(Anat) Dip Museology DTE(Pretoria) ..... Lecturer
Keough, N., BSc(MedSci) BSc(Hons) MSc(Anat)(Pretoria) ..... Lecturer
Human-Baron, R., BSc(Hons) MSc(Pretoria) ..... Junior Lecturer
Serem, J., BSc(Hons) MSc(Pretoria) ..... Lecturer
Shanahan, D., PhD(NUI, Galway) ..... Extraordinary Lecturer

Department of Anatomical Pathology

Louw, M., MBChB MMed(Path)(Pretoria) ..... Senior Lecturer/ Principal Specialist
Dinkel, J.E., MBChB MMed(Path)(Pretoria) DA(SA) ..... Senior Lecturer/ Senior Specialist
Campaini, C., MBBCh(Italy) MMed(AnatPath)(Medunsa) ..... Senior Lecturer/ Senior Specialist
Eyal, P., MBChB MMed(Path)(Pretoria) ..... Lecturer/ Senior Specialist
Crause, C., MBChB MMed(Path)(AnatPath)(Pretoria) ..... Junior Lecturer/ Pathologist

Department of Anaesthesiology

Rantloane, J.L.A., MBChB MMed(Anaes)(Medunsa) ..... Professor/ Head: Clinical Dept (Head)
Fourie, P.J.H.L., MBChB MMed(Anaes)(Pretoria) GKN(SA) ..... Professor/ Head: Clinical Unit
Smith, F.J., BSc(Pharm)(Potchefstroom) MBChB MMed(Anaes) MD(Pretoria) GKN(SA) UVLM(SA) FTCL ..... Adjunct Professor/ Head: Clinical Unit
Dlamini, S.H., BSc(Swaziland) MBChB(Medunsa) ..... Senior Lecturer/
DA(SA) MMed(Anaes)(Medunsa) ..... Head: Clinical Unit
Maneli, N., MBChB(Medunsa) DA(SA) FCA(SA) ..... Senior Lecturer/ Head: Clinical Unit
Selepe, E., MBChB(Natal) FCA(SA) ..... Senior Lecturer/ Head: Clinical Unit

Alberts, A.N.J.D., MBChB MMed(Anaes)(Pretoria) DA(SA) DipPEC(SA) GKN(SA) ..... Senior Lecturer/ Principal Specialist

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Nel, M.S., MBChB(Pretoria) MMed(Medunsa) ..... Senior Lecturer/ Principal Specialist

De Bruin, J.C., MBChB MMed(Anaes)(Pretoria) DA DipPEC(SA) ..... Senior Lecturer/ Medical Specialist

Schutte, H., MBChB MMed(Anaes)(Pretoria) ..... Senior Lecturer/ Medical Specialist

Matlala, N.S., BSc MBBCh(Witwatersrand) MMed(Anaes)(Pretoria) DA(SA) ..... Lecturer/Medical Specialist

Naidoo, S., MBChB MMed(Pretoria) DA(SA) ..... Lecturer/ Medical Specialist

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Voigt, M., MBChB MMed(Pretoria) DA(SA) FCA(SA) ..... Lecturer/ Medical Specialist

Naidoo, K., MBChB(Cape Town) MMed(Anaes)(Pretoria) FCA(SA) .. Lecturer/Specialist

Department of Cardiology

Sarkin, A.I., MBBCh(Witwatersrand) FCP(SA) ..... Professor/ Head: Clinical Department (Head)

Mthiyane, S.D., MBChB(Medunsa) PPDM FCP(SA) ..... Lecturer/ Medical Specialist

Naran, R., MBBCh DipHIVMan(SA) FCP(SA) MMed(Int)(Witwatersrand) ..... Lecturer/ Medical Specialist

Department of Chemical Pathology

Pillay, T.S., MBChB(Natal) PhD(Cambridge) FRCPath(UK) FCPath(SA) ..... Professor/ Head: Chemical Department (Head)

Oosthuizen, N.M., MBChB(Pretoria) FCPath(SA)(Chem) ..... Senior Lecturer/ Principal Specialist

Murray, L.M., MBChB(Pretoria) MMed(Medunsa) ..... Lecturer/ Medical Scientist

Kiabilua, Z.M.O., BSc MD(Kinshasa) FCPath(SA)(Chem) ..... Senior Lecturer/ Senior Specialist

Van Niekerk, C., MSc(Free State) PhD(Pretoria) ..... Lecturer/ Medical Scientist

Department of Family Medicine

Hugo, J.F.M., MBChB MFamMed(Free State) ..... Professor/ Head: Clinical Department (Head)

Meyer, H.P., MBChB MPraxMed(Pretoria) MFGP(SA) FCFP(SA) ..... Professor/ Head: Clinical Unit

Delport, R., BA et Scien(Nursing)(Potchefstroom) BCur(IntCare)(Hons) MSc(Physiol) PhD MEd(Computer-integrated Education)(Pretoria) ..... Associate Professor

Smith, S., MBChB(Free State) MPraxMed(Pretoria) FCFP(SA) ..... Adjunct Professor/ Senior Medical Specialist

Marcus, T.S., BSc(Econ)(London School of Economics) MSc PhD(Lodz, Poland)..... Extraordinary Professor

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Bondo, M.C., MBChB(Congo) MMed(FamMed)(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit

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Nkombua, L., MD(Kinshasa) MMed(FamMed)(Pretoria)..... Senior Lecturer/ Head: Clinical Unit

Ongole, J.J., MBChB(Makerere Univ) MMed(FamMed)(Pretoria)..... Senior Lecturer/ FCFP(CMSA) Dip HIV Man(CMSA) Family Physician/ MSc Epidemiology&Biostatics(Witwatersrand) Head: Clinical Unit

Peters, F., MBChB(Pretoria) MFamMed(Free State) SGR(Unisa)..... Senior Lecturer/ Principal Specialist/ Head: Clinical Unit

Ukpe, I.S., MBBcH(Calabar) DTM&H(London) MMed(FamMed)(Pretoria) FACTM(Australia)..... Senior Lecturer/ Head: Clinical Unit

Britz, E.N., MBChB MPraxMed(Pretoria)..... Senior Lecturer/ Senior Family Physician (Part-time)

Geyser, M.M., BSc(Computer Sci) MSc(Clinical Epidemiology) MBChB MPraxMed(Pretoria) BSc(Pharm)(Hons) (Potchefstroom) DipPEC(SA) FCEM(SA) ..... Senior Lecturer/ Senior Family Physician

Zele, N.P., MBChB(Transkei) MFamMed(Free State)..... Senior Lecturer/ Senior Medical Specialist

Kenny, P.T., MBChB MPraxMed(Pretoria) Dip (Pall Med)(Cape Town)..... Senior Lecturer/ Family Physician

Lachowicz, R., MD(Poland) MMed(FamMed)(Pretoria) ..... Senior Lecturer/ Medical Specialist

Tiamiyu, M.Y., MBBC(Lagos) DipObs(SA) BSc(Stellenbosch) MMed(FamMed)(Medunsa) ..... Senior Lecturer/ Medical Specialist

Adigun, K.R., MBChB MSc MWACPath FMCP(Nigeria) MMed(FamMed)(Pretoria)..... Senior Lecturer/ Family Physician

Angelova, A., MBChB(Bulgaria) MMed(FamMed)(Pretoria)..... Senior Lecturer/ Medical Specialist

Bac, M., Arts(Rotterdam) MMed(FamMed) MD(Medunsa) ..... Senior Lecturer/ Family Physician

Duvenage, H.S., MBChB MMed(FamMed)(Pretoria) ..... Senior Lecturer/ Family Physician

Hitchcock, S., MBChB(Cape Town) MPraxMed(Pretoria)..... Senior Lecturer/Senior Dip(Pall Med)(Cape Town) Family Physician

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Louw, J.M., MBChB(Pretoria) DTM&H(Witwatersrand) MMed(FamMed)(UL)..... Senior Lecturer/ Family Physician

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Ngoyi, K.T.,MBChB(Kinshasha) MMed(FamMed)(Pretoria)..... Senior Lecturer/ Family Physician

Oosthuizen, S.J., MBChB MMed(FamMed)(Pretoria) ..... Senior Lecturer/ District Family Physician

Rauf, W., BSc MBBS(Punjab) DipPEC(SA) MMed(FamMed)(Pretoria)..... Senior Lecturer/ Family Physician

Tshabalala, Z., MMSc(Medical Science)(USA) ..... Lecturer/ Clinical Associate

Van Rooyen, M., MBChB MMed(FamMed)(Pretoria)..... Senior Lecturer/ Family Physician

Visser, C.A., MBChB DCEHM(Pretoria) MMed(FamMed)(Medunsa) MPH(Pretoria) ..... Senior Lecturer/ Family Physician

Botha, L., MBChB MMed(Emergency Med)(Pretoria)..... Lecturer/Specialist (Emergency Medicine)

Hoffeldt, A., MBChB(Pretoria)..... Lecturer/ Medical Specialist

Kuther, A., MBChB(Pretoria) ..... Lecturer/ Medical Specialist

Rossouw, T.M., MBChB MPhil(Stellenbosch) ..... Lecturer/ Medical Specialist

Kruger, A., MBChB(Pretoria) MFamMed(Stellenbosch)..... Lecturer/ Family Physician

Rogers, D., MBChB(Cape Town) MRCGP(UK) DA(CMSA) Dipl Medical Education(PCMD UK)..... Lecturer/ Family Physician

Joubert-Bultman, S.J., MBChB(Pretoria)..... Lecturer

Klaas, N.E., Dipl in GenCommNursSci, Psych & Midwifery(Unisa) BCur (I et A) Diploma in NursEdu & Admin MCur(Pretoria)..... Lecturer/Nurse Specialist/Clin Associate

Meyer, E.D., MBChB(Pretoria) MSc(Bio-ethics & Health Law) (Witwatersrand) ..... Lecturer
Mokone, D.N., MBChB(Kwazulu-Natal) MMed (Fam Med)(Medunsa) .. Lecturer/ Family Physician
Netangaheni, T.R., BACur MACur PhD(Unisa) ..... Lecturer/ Clinical Associate
Ngcobo, S., BClinical Medical Practice(Pretoria) ..... Lecturer/ Clinical Associate
Rautenbach, A., MBChB(Free State) ..... Lecturer
Reinbrecht-Schütte, A., MBChB MMed(Fam Med)(Pretoria) ..... Lecturer/ Family Physician
Tshotetsi, L.Y., BSc HSE DCM(Malawi) ..... Lecturer/ Clinical Associate
Van Schalkwyk, R., Dipl in GenNurs & Midwifery Dipl in Psychiatry BA(Cur)(NursAdmin & CommHealth) Dipl in NursEdu(Unisa) Dipl in IntCare(Pretoria) BA(Hons)(AdvNurs)(Unisa) ..... Lecturer/Nurse Specialist

Department of Forensic Medicine

Saayman, G., MBChB MMed(Path:MedForens)(Pretoria) FCForPath(SA) ..... Professor/Head: Clinical Department (Head)
Rossouw, S.H., MBChB MMed(MedForens) MA(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit
Blumenthal, R., MBChB MMed(Path:MedForens)(Pretoria) FCForPath(SA) DipForensMed(SA) CML(Unisa) ..... Senior Lecturer/ Senior Specialist
Du Toit-Prinsloo, L., MBChB MMed(Path:MedForens)(Pretoria) DipForensMed(SA)(Path) FCForPath(SA) ..... Senior Lecturer/ Medical Specialist
Verster, J., MBChB(Stellenbosch) DipForMed(SA)(Path) FCForPath(SA) ..... Senior Lecturer/ Specialist
Gräbe, S., MBChB(Pretoria) DTM DCH ..... Lecturer (Part-time)
Kelbrick, L.M., BA LLB(Pretoria) ..... Lecturer (Part-time)
Carstens, P.A., BLC LLB LLD(Pretoria) ..... Extraordinary Lecturer
Guruparsad, K., MBChB MMed(Path:AnatPath)(Pretoria) FCPath(SA) ..... Extraordinary Lecturer

Department of Haematology

Pool, R., MBChB(Pretoria) MMed(Haemat)(Medunsa) ..... Adjunct Professor/ Chief Specialist (Head)
Swart, A.M., MBChB MPraxMed MMed(Path:Haemat)(Pretoria) ..... Senior Lecturer/ Principal Specialist
Potgieter, J.J.C., MBChB MMed(FamMed) MMed(Path:Haemat)(Pretoria) ..... Senior Lecturer/ Senior Specialist
Nel, J.G., MBChB(Stellenbosch) MMed(Haemat)(Free State) ..... Lecturer/Specialist
Ntabeni, N.L., MBChB MMed(Fam Med)(Pretoria) FCPathHaem(SA) ..... Lecturer/Specialist

Department of Immunology

Cockeran, R., BSc(Free State) BSc(Hons)(RAU) MSc PhD(Pretoria) .. Associate Professor/ Chief Specialist (Head)
Anderson, R., BSc(Hons)(Glasgow) MSc PhD(Witwatersrand) ..... Research Professor
Pepper, M.S., MBChB(Cape Town) PhD MD (Geneva) ..... Professor
Theron, A.J., BSc MSc PhD(Pretoria) ..... Associate Professor/ Principal Specialist
Cassol, S.A., BSc(Hons) MSc(Queens Univ) PhD(McGill, Canada) ..... Extraordinary Professor
Olckers, A., BSc MSc PhD(Pretoria) ..... Extraordinary Professor
Van der Merwe, S.W., MBChB MSc(Physiol)(Pretoria) ..... Extraordinary Professor
Meyer, P.W.A., NDip Tech NHDip Tech MTech(TUT) PhD(Pretoria) ..... Senior Lecturer/ Medical Specialist
Cholo, M.C., BSc(Hons) MSc(Univ of the North) PhD(Pretoria) ..... Extraordinary Lecturer
Frenkel, L.M., BA MD(Kansas) ..... Extraordinary Lecturer
Steel, H.C., BSc(Hons) MSc(Rhodes) PhD(Pretoria) ..... Extraordinary Lecturer

Department of Internal Medicine

Tintinger, G.R., MBBCh(Witwatersrand) MMed PhD(Pretoria) ..... Professor/Chief Specialist Head: Clinical Department
Retief, J.H., MMed(Int) MSc(Pretoria) ..... Professor/ Head: Clinical Department
Ker, J.A., MBChB MMed(Int) MD(Pretoria) ..... Professor/Specialist
Ally, M.M.T.M., MBBCh(Witwatersrand) Rheumat FCP(SA) ..... Associate Professor/ Head: Clinical Unit
Visser, S.S., MMed(Int) PhD (Pretoria) ..... Professor/ Head: Clinical Unit
Van Zyl, D.G., MMed(Int)(Pretoria) FCP(SA) Dip PEC MSc PhD(Pretoria) ..... Adjunct Professor/ Principal Specialist
Stoltz, A.C., MBChB MMed(Int) BSc(Hons) MSc PhD(Pretoria) ..... Professor/ Principal Specialist/ Head: Clinical Unit
Ellimden, S., MMed(Int)(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit
Kemp, T., MBChB MMed(Int)(Pretoria) Cert Endocrinology & Metab(SA) ..... Senior Lecturer/ Senior Medical Specialist Head: Endocrinology Unit
Kgomo, M.K., MBChB FCP(SA) ..... Senior Lecturer/ Head: Clinical Unit
Nagel, G.J., MMed(Int)(Pretoria) DTG ..... Senior Lecturer/ Principal Specialist
Elnagar, A.A., MBChB(Univ Khartoum, Sudan) FCP(SA) MRCP(UK) ..... Senior Lecturer/ Senior Medical Specialist
Levay, P., MMed(Int)(Pretoria) ..... Senior Lecturer/ Senior Medical Specialist
Ribeiro Da Costa, M.M., MBChB(Pretoria) ..... Senior Lecturer/
MMed(Int)(Witwatersrand) ..... Senior Medical Specialist

Sommers, R., MMed(Int) MPharmMed(Pretoria)..... Senior Lecturer/ Senior Medical Specialist
Haffejee, A.I., MBChB MMed(Int)(Pretoria) ..... Senior Lecturer/ Medical Specialist
Pannell, N., MBChB MMed(Int)(Pretoria) ..... Senior Lecturer/ Medical Specialist
Smith, L., MBChB MMed(Pretoria)..... Senior Lecturer/ Medical Specialist
Ueckerman, V., MBChB MMed(Int)(Pretoria) ..... Senior Lecturer/ Medical Specialist
De Villiers, M., MBChB(Pretoria) FCP(SA)..... Lecturer/ Medical Specialist
Kalpee, R.,MBChB MMed(Int)(Pretoria ..... Lecturer/ Medical Specialist
Nagel, G.J., MBChB MMed(Int)(Pretoria)..... Lecturer/ Medical Specialist
Viviers, P.J., MBChB MMed(Int)(Pretoria)..... Lecturer/ Medical Specialist
Aung, S., MBChB..... Lecturer/Principal Medical Officer
Human, S.J., MBChB DTM&H DCG DAAM ..... Lecturer/Principal Medical Officer
Louw, D., MPharmMed(Pretoria)..... Junior Lecturer/ Senior Medical Officer

Dermatology Division
Wentzel, L.F., BSc MBChB MMed(Med)(Pretoria) ..... Senior Lecturer/ Senior Medical Specialist
Tenea, D., MD(Bucharest) MBChB MMed(Derm)(Pretoria)..... Lecturer/ Medical Specialist

Department of Medical Microbiology
Mbelle, N.M., BSc(UBS) MSc(Cornell) MBChB DTM&H(Witwatersrand) FCPath(Micro) MMed(Witwatersrand) ..... Professor/Chief Specialist (Head)
Ehlers-Van der Zel, M.M., BSc(Agric) BSc(Agric)(Hons) MSc(Agric) PhD(Pretoria) Post Doct (2 years)..... Associate Professor
Fourie, P.B., MSc(Zoology)(Pretoria) PhD(Witwatersrand) ..... Extraordinary Professor
Ahmed, K., BSc(Westville) MBChB(Natal) MMed(Micro)(Medunsa) FCPath(Micro) ..... Senior Lecturer/ Specialist
Ismail, N.A., MBChB FCPath(Micro) MMed(Micro)(Medunsa) DTM&H(Witwatersrand) PDIC(Stellenbosch) ..... Senior Lecturer/ Specialist
Lekalakala, M.R., BSc(Micro) MBChB(Medunsa) MMed(Micro)(Univ of Limpopo: Medunsa) DTM&H(Witwatersrand) PDIC(Stellenbosch) ..... Senior Lecturer/ Specialist
Osman, E., MSc(Pharmacology) MBChB MD(Cape Town) DTM&H(Witwatersrand)..... Senior Lecturer/ Specialist

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Magazi, B.T., MBChB(Zimbabwe) DTM&H(Witwatersrand) Dip HIV Management MMed(Micro)(Pretoria)..... Lecturer/Specialist
Clay, C.G., BSc(Unisa) BSc(Med) MSc PhD(Medunsa) ..... Lecturer/Senior Medical Scientist
Dangor, Y., BSc(Westville) MSc(Witwatersrand)..... Lecturer/ Senior Medical Scientist
Kock, M., BSc MSc PhD(Pretoria)..... Lecturer/ Senior Medical Scientist

Department of Medical Oncology

Dreosti, L.M., BSc(Hons) MBBCh(Witwatersrand) FCP(SA) ..... Professor/ Head: Clinical Department (Head)
Kempen, C.J., MBChB MMed(Int)(Pretoria) ..... Senior Lecturer/ Medical Specialist
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Seolwane, F.L., MBChB(Medunsa) FCP(SA)..... Senior Lecturer/ Medical Specialist
Janse van Vuuren, H.E., MBChB MMed(Path: Haem)(Pretoria)..... Senior Lecturer/ Medical Officer
Wessels, P.F., MBChB MMed(Path:Haem)..... Extraordinary Lecturer
Minyuku, K.F., MBChB(Medunsa) ..... Lecturer/ Medical Specialist
Anderson, L., MBChB(Pretoria) ..... Lecturer/Medical Officer
Burger, W., MBChB(Free State)..... Lecturer/Medical Officer
Coetzer, B.J., MBChB(Pretoria)..... Lecturer/Medical Officer
Klebanoff, S., MBChB(Rome)..... Lecturer/Medical Officer
Limberis, C., MBBCh(Witwatersrand)..... Lecturer/Medical Officer
Mmusi, M.M., MBChB(Medunsa) ..... Lecturer/Medical Officer
Roos, E.L., MBChB(Pretoria)..... Lecturer/Medical Officer
Stoltz, B., MBChB ..... Lecturer/Medical Officer
Agenbag, W.A., BPharm(Potchefstroom)..... Research Officer
Cronje, D., DipNurse..... Research Officer
Mertz, M.S., BPharm(Hons) MSc(Pharm)(Potchefstroom) PhD(Pretoria) ..... Research Officer
Jooste, L., NatDip(Microbiol)(TUT) ..... Research Officer
Swart, T., BPharm(Potchefstroom)..... Research Officer
Webber, J. E., BSc(Hons)(Nursing)(Witwatersrand) ..... Research Officer

Department of Medical Virology

Webber, L.M., MBChB MMed(Path)(Med Virol) DTH(Pretoria)..... Professor/ Chief Specialist (Head)
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Taylor, M.B., MSc(Rhodes) DSc(Pretoria) MedSci PrSciNat ..... Associate Professor/ Medical Scientist

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Myburgh, M., MBChB(Pretoria) FC Path(SA) (Virol)
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Department of Neurology

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Department of Neurosurgery

Mokgokong, M.S., BSc(Univ of the North) MBChB(Natal)
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Department of Nuclear Medicine

Sathekge, M.M., MBChB MMed(Nucl Medicine)(Medunsa)
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Buscombe, J., MBBS PhD(London) ..... Extraordinary Professor
Maes, A., MD PhD(Kul, Belgium) ..... Extraordinary Professor
Van de Wiele, C., MD PhD(Ghent, Belgium) ..... Extraordinary Professor
Mokgoro, N.P., MBChB MMed(Nucl Medicine)(Medunsa) ..... Lecturer/ Medical Specialist

Nyakale, N.E., MBChB MMed(Nucl Med)(Pretoria) FCNP(SA)..... Lecturer/ Medical Specialist
Vorster, M., MBChB MPharmMed MMed(Pretoria) FCNP(SA)..... Lecturer/ Medical Specialist
Nonjola, L.B., BSc(Hons)(Medical Physics)(Free State)..... Physicist/ Extraordinary Lecturer

Department of Obstetrics and Gynaecology

Lindeque, B.G., MBChB(Pretoria) MMed(O et G) MD(Stellenbosch) GKOG(SA) M.Akad.SA..... Professor/ Head: Clinical Department (Head)
Pattinson, R.C., BSc MBBCh(Witwatersrand) MMed(O et G) MD(Stellenbosch) FCOG(SA) MRCOG..... Professor/ Head: Clinical Department
Dreyer, G., MBChB MMed(O et G)(Pretoria) FCOG(SA) PhD(Pretoria)..... Adjunct Professor/ Head: Clinical Unit
Snyman, L.C., MBChB MPraxMed MMed(O et G)(Pretoria) FCOG(SA)..... Adjunct Professor/ Head: Clinical Unit
Amoko, D.H.A., MBChB(Makerere Univ, Kampala) MSc(Community Medicine) MHSc(Univ British Columbia) MMed(O et G)(Univ of Limpopo) DTM&H(Witwatersrand)..... Senior Lecturer/ Head: Clinical Unit
Lombaard, HA du T., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Senior Lecturer/ Head: Clinical Unit
Mouton, A., BSc(Pharm)(Potchefstroom) MBChB MPraxMed MMed(O et G)(Pretoria) FCOG(SA)..... Senior Lecturer/ Medical Specialist
Mulder, J.P., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Senior Lecturer/ Medical Specialist
Soma-Pillay, P., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Senior Lecturer/ Medical Specialist
Swart, P., MBChB MMed(O et G)(Pretoria)..... Senior Lecturer/ Medical Specialist
Abdool, Z., MBChB(Medunsa) MMed(O et G)(Pretoria) FCOG(SA)..... Lecturer/Medical Specialist
Adams, S., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Lecturer/ Medical Specialist
Baloyi, S., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Lecturer/ Medical Specialist
Du Plessis, J., MBChB MMed(O et G)(Pretoria) FCOG(SA)..... Lecturer/ Medical Specialist
Makin, J.D., MBBCh(Witwatersrand) BSc(Hons)(Stellenbosch) MSc(Clinical Epidemiology)..... Lecturer/Medical Officer
Makwela, M.R., MBChB(Cape Town) MMed(O et G)(Pretoria) FCOG(SA)..... Lecturer/ Medical Specialist

Mathonsi, N., MBChB MMed(O et G)(Pretoria) FCOG(SA) .....Lecturer/
Medical Specialist
Nene, L.N.Z., MBChB MMed(O et G)(Pretoria) FCOG(SA) .....Lecturer/
Medical Specialist
Mnisi, MBChB(Medunsa) MMed(O et G)(Pretoria) FCOG(SA).....Lecturer/
Medical Specialist
Molokoane, G., MBChB(Natal) MMed(O et G)(Pretoria) FCOG(SA)..Lecturer/
Medical Specialist

Department of Ophthalmology
Makunyane, P.M.S., MBChB(Natal) FCS(Ophth)(Witwatersrand) .....Acting Head/
Senior Lecturer/
Senior Manager:
Medical Services
Asholi, A.A.O., MBChB(Alfatah) MMed(Ophth)(Pretoria) .....Head: Clinical Unit/
Senior Lecturer/
Senior Manager:
Medical Services
Msutwana, S.E., MBChB FCS(Ophth)(Medunsa).....Head: Clinical Unit/
Senior Lecturer/
Medical Specialist
Rahman, K., MBBCh(Witwatersrand) FCS(Ophth)(Pretoria) .....Senior Lecturer
Aphane, M., MBChB(Natal) FCS(Ophth)(Pretoria) .....Lecturer/
Medical Specialist
Carrim, S.S., MBChB(Medunsa) MMed(Ophth)(Pretoria) .....Lecturer/
Medical Specialist

Department of Orthopaedics
Ngcelwane, M.V., MBChB(Natal) FCS(SA) MSc(Orth)(London).....Adjunct Professor/
Head: Clinical
Department
(Head)
Myburgh, J.G., MBChB MMed(Orth)(Pretoria) LKC(Orth)(SA).....Adjunct Professor/
Head: Clinical Unit
Le Roux, T.L.B., MBChB MMed(Orth)(Pretoria) FCS(Orth)(SA).....Adjunct Professor/
Chief Specialist
Motsitsi, N.S., MBChB(Medunsa) MMed(Orth) FCS(ASEA) .....Adjunct Professor/
Head: Clinical Unit
Sombili, S., MBChB Dip Orth(SA) FC(Orth)(SA) MMed(Orth).....Senior Lecturer/
Head: Clinical Unit
Vlok, A.L., MBChB(Stellenbosch) MMed(Orth)(Pretoria).....Senior Lecturer/
Principal Specialist
Goller, R., MBChB MMed(Orth)(Pretoria) FCS(Orth)(SA).....Lecturer/
Medical Specialist
Kruger, T.G., MBChB MMed(Orth)(Pretoria) FCS(Orth)(SA) .....Lecturer/
Medical Specialist
Sithebe, H.,MBChB MMed(Orth)(Medunsa) FCOrth(SA).....Lecturer/
Clinical Specialist

Department of Otorhinolaryngology

Tshifularo, M.I., MBChB(Natal) FRCS(Orl) FCS(Orl)(SA) MMed(Orl)(Medunsa) ..... Professor/ Head: Clinical Department (Head)

Mulder, A.A.H., MBChB MPraxMed MMed(Orl)(Pretoria) ..... Emeritus Professor

Department of Paediatrics

Green, R.J., MBBCh MMed(Paed) FCCP PhD(Witwatersrand) Dip Allerg(SA) DCH(SA) FCP(SA) FAAAAI FRCP DSc(Pretoria) Professor Head: Clinical Department (Head)

Delport, S.D., MMed(Paed) MPharmMed PhD(Pretoria) ..... Associate Professor/ Head: Clinical Unit

Smuts, I., BSc MMed(Paed) PhD(Pretoria) ..... Associate Professor/ Head: Clinical Unit

Avenant, T.J., MBChB MMed(Paed)(Pretoria) ..... Adjunct Professor/ Head: Clinical Unit

Masekela, R., MBBCh(Witwatersrand) MMed(Paed) DipAllerg(SA) Cert Pulm(SA) Paed FCCP PhD(Pretoria) ..... Adjunct Professor/ Medical Specialist

De Witt, T.W., MBChB MMed(Paed) DTI(Pretoria) ..... Adjunct Professor/ Medical Specialist

Reynders, D.T., FC(Paed)(SA) MRCP CH(London) Cert Med Oncology(Paed)(SA) ..... Adjunct Professor/ Head: Clinical Unit

Van Biljon, G., MMed(Paed)(Pretoria) FCP(Paed)(SA) Cert Paed Nephrology(SA) ..... Adjunct Professor/ Medical Specialist

Wittenberg, D.F., MBChB(Cape Town) MD(Natal) FCP(SA) ..... Emeritus Professor

Opperman, J.C., MMed(Path) MMed(Paed) DVG(Pretoria) DTM&H(Witwatersrand) ..... Senior Lecturer/ Head: Clinical Unit

Takawira, F.F., FC(Paed)(SA) DTM&H MMed(Paed)(Witwatersrand) ..... Senior Lecturer/ Head: Clinical Unit

Feucht, U., MBChB(Stellenbosch) FC(Paed)(SA) MMed(Paed)(Pretoria) Dip HIV Management(Pretoria) CAHM ..... Senior Lecturer/ Medical Specialist

Lubbe, E., MBChB(Pretoria) DA(SA) FC(Paed)(SA) Cert(Paed) Neurology(CMSA) ..... Senior Lecturer/ Medical Specialist

Mulaudzi, M.C., MBChB(Natal) MMed(Paed)(Pretoria) Dip HIV Management(SA) ..... Senior Lecturer/ Medical Specialist

Brisley, T., MBChB MMed(Paed) (Pretoria) ..... Lecturer/ Senior Medical Specialist

Cloete, J., MBChB(Stellenbosch) DCH(SA) MMed(Paed)(Pretoria) .. Lecturer/ Medical Specialist

Du Plessis, N.M., MBChB(Stellenbosch)
MMed(Paed)(Pretoria) FC(Paed)(SA) Dip Allerg(SA)
Dip HIV Management(SA) Cert ID(Paed)(SA) ..... Lecturer/
Medical Specialist
Joshi, J.A., MBBCh(Witwatersrand) FC(Paed)(SA)..... Lecturer/
Medical Specialist
Lamb, G., MBBCh(Witwatersrand) Dip Allerg(SA) FC(Paed)(SA)..... Lecturer/
Medical Specialist
Lloyd, L.G., MBChB(Pretoria) DCH(SA) FC(Paed)(SA)..... Lecturer/
Medical Specialist
Mitchell, B.J., MBChB MMed(Paed)(Pretoria) Cert Cardiology(Paed) .. Lecturer/
Medical Specialist
Omar, F.E., MBChB(Pretoria) FC(Paed)(SA)..... Lecturer/
Medical Specialist
Snyman, P.J., MBChB(Pretoria) FC(Paed)(SA) DipPEC(SA)
DCH(SA) ..... Lecturer/
Medical Specialist
Terblanche, A., MMed(Paed)(Pretoria) FC(Paed)(SA) DipAllerg ..... Lecturer/
Medical Specialist
Van Rooyen, E., MBChB MPharmMed(Pretoria) DCH(SA) ..... Lecturer/Principal
Medical Officer

Department of Pharmacology

Greeff, O.B.W., MBChB MPharmMed(Pretoria) FCFP(SA)
FFPM(RCP) MD(Psych)(KwaZulu-Natal) M.Akad.SA ..... Professor
(Head)
Steenkamp, V., BSc BSc(Hons) MSc(Pretoria)
PhD(Witwatersrand) HED(Unisa)..... Associate Professor
Cromarty, A.D., BSc BSc(Hons) MSc(Witwatersrand)
PhD(Pretoria) ..... Senior Lecturer
Matijs, S., MBChB MPharmed(Pretoria) Dip PEC(SA)..... Senior Lecturer
Muntingh, G.L., BPharm(Pretoria) MSc(Pharm) PhD(Medunsa)..... Senior Lecturer
Outhoff, K., MBChB(Cape Town) DipPharmMed FFPM(London)..... Senior Lecturer
Van Tonder, J.J., BSc(Hons) MSc PhD (Pretoria)..... Lecturer

Department of Physiology

Van Papendorp, D.H., MBChB(Pretoria) BSc(Hons)
MSc PhD(Stellenbosch) M.Akad.SA..... Professor
(Head)
Joubert, A.M., MSc PhD(Pretoria) ..... Professor
Pretorius, E., BSc(Hons) MSc(Stellenbosch) PhD DTE(Pretoria) ..... Professor
Apatu, R.S.K., MBChB(Ghana) PhD(Cantab) ..... Associate Professor
Ker, J., MBChB MMed(Int) PhD(Pretoria) MRCP(Edinburgh)
Fellow: European Society of Cardiology ..... Associate Professor
(Temporary part-time)
Viljoen, M., MSc PhD (Pretoria) PhD(Witwatersrand)
Nat Dip(Microbiology)..... Emeritus Professor
Coetzee, M., BSc(DomSci)(Ed) MSc(Potchefstroom) PhD(Pretoria) .... Senior Lecturer
Du Toit, P.J., BSc MSc PhD(Pretoria) ..... Senior Lecturer
Soma, P., MBChB MSc(Pretoria) ..... Senior Lecturer
Alummoottill,S., BSc MSc(India)..... Lecturer
Bipath, P., BSc MSc(Pretoria) ..... Lecturer
Grobbelaar: C.W., MBChB(KwaZulu-Natal) MSc(Pretoria) ..... Lecturer

Hhlope, Y., BSc MSc (Pretoria) ..... Lecturer
Koorts, A.M., BSc MSc PhD(Pretoria) ..... Lecturer
Stander, B.A., BMedSci(Free State) MSc PhD(Pretoria) ..... Lecturer
Theron, A.E., MBChB BSc(Hons) MSc(Pretoria) ..... Lecturer
Van Rooy, M., BSc MSc(Pretoria) ..... Lecturer
Piorkowski, T., MBChB(Pretoria) ..... Lecturer (Temporary part-time)

Department of Psychiatry

Roos, J.L., MBChB MMed(Psych) MD(Pretoria) FC Psych(SA)(CMSA) ..... Professor/ Head: Clinical Department (Head)
Krüger, C., MBBCh(Witwatersrand) MMed(Psych)(Pretoria) MD(Warwick) FC Psych(SA)(CMSA) ..... Professor/ Head: Clinical Unit
Van Staden, C.W., MBChB MMed(Psych)(Pretoria) FTCL(London) UPLM(Unisa) MD(Warwick) FC Psych(SA)(CMSA) ..... Professor
Joubert, P.M., MBChB(Stellenbosch) MMed(Psych)(Pretoria) FC Psych(SA)(CMSA) ..... Adjunct Professor/ Head: Clinical Unit
Van der Westhuizen, D., MBChB MMed(Psych) MBA MD(Pretoria) FC Psych(SA) ChildPsych(Cert)(CMSA) ..... Adjunct Professor/ Head: Clinical Unit
Scholtz, J.G., BSocSci(RAU) BA(Hons) MA(ClinPsych)(Pretoria) DLitt et Phil(RAU) ..... Adjunct Professor/ Principal Psychologist
De Wet, P.H., BChD MBChB MMed(Psych)(Pretoria) Forensic Psych(HPCSA) Cert Medicine and Law (Unisa) ..... Senior Lecturer/ Head: Clinical Unit
Grobler, G.P., MBChB MMed(Psych)(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit
Böhmer, M. W., MBChB MMed(Psych)(Pretoria) ..... Senior Lecturer/ Medical Specialist
Joubert, M., MBChB MMed(Psych)(Pretoria) ..... Senior Lecturer/ Medical Specialist
Sokudela, B.F., MBChB(Witwatersrand) MMed(Psych)(Pretoria) ..... Senior Lecturer/ Medical Specialist
Mataboge, C.K., MBChB(Medunsa) MMed(Psych)(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit
Maaroganye, K.S., MBChB(Natal) MMed(Psych)(Pretoria) ..... Lecturer/ Medical Specialist
Du Plessis, A.M.E., BSc(Hons)(Psych) MBChB MMed (Psych)(Pretoria) ..... Lecturer/ Medical Specialist
Khamker, N., MBChB MMed(Psych)(Pretoria) FC Psych(SA) Dip(Obstr)(CMSA) ..... Lecturer/ Medical Specialist
Kotze, C., MBChB MMed(Psych)(Pretoria) DMH(SA) FC Psych(SA)(CMSA) ..... Lecturer/ Medical Specialist
Lippi, G., MBChB MMed(Psych)(Pretoria) FC Psych(SA)(CMSA) ..... Lecturer/ Medical Specialist

Magagula, T.G., MD(Cuba) MBChB(Medunsa) DMH(SA)
MMed(Psych)(Pretoria)..... Lecturer/
Medical Specialist
Mataboge, R.H., MBChB DOH&M MMed(Psych)(Pretoria) ..... Lecturer/
Medical Specialist
Naidu,K., MBChB MMed(Psych)(Pretoria) FC Psych(SA) ..... Lecturer/
Medical Specialist
Pooe, J.M., MBChB(Medunsa) MMed(Psych)(Pretoria)
FC Psych(SA) ..... Lecturer/
Medical Specialist
Coetzee, J.C., BA(Theology) BA(Hons)(Psych)
MA(ClinPsych)(Pretoria) ..... Lecturer/Psychologist
Fernihough, M., BSocSci BSocSci(Hons)(Pretoria)
MA (ClinPsych)(Unisa) ..... Lecturer/Psychologist
Hassim, J., BPsych(Unisa) MA(ClinPsych) PhD(Pretoria)..... Lecturer/Psychologist
Mare, L., BSc(Phys/Psych) BSc(Hon)(Psych)
MSc(ClinPsych)(North-West)..... Lecturer/Psychologist
Michael, K.S. BA(Lang) BA(Hons)(Psych) MA(ClinPsych)(Pretoria).. Lecturer/Psychologist
Morkel, M., BSocSci(Psych) BSocSci(Psych)(Hons)
MA(ClinPsych)(Pretoria) ..... Lecturer/Psychologist
Schluep, N., BA(Soc. Work) BA(Pysch)(Pretoria)
MA (ClinPsych)(Unisa) ..... Lecturer/Psychologist
Statham, G.I., BSc(Psych) BSc(Hons)(Psych)
MSc(ClinPsych)(Johannesburg) ..... Lecturer/Psychologist
Swanepoel, I., BA(Psych) BA(Hons)(Psych) MSc(MedApplPsych)
MA(ClinPsych)(Pretoria)..... Lecturer/Psychologist
Van Lelyveld, C.R., B(Psych) MA(Psych)(North-West) ..... Lecturer/Psychologist

Nelson Mandela Chair in Philosophy and Ethics of Mental Health
Van Staden, C.W., MBChB MMed(Psych)(Pretoria) FTCL(London)
UPLM(Unisa) MD(Warwick) FCPsych(SA)(CMSA)..... Professor/Head

Department of Radiation Oncology
Lakier, R.H., BSc MMed(Rad T)(Witwatersrand)..... Professor/
Head: Clinical
Department
(Head)
Van Rensburg, A.J., MMedSc(Biophysics)(Free State)
Dip Public Management PhD(Pretoria) ..... Extraordinary Professor/
Senior manager
Hocepied, A.M.L., MD MMed(Rad-Onc)..... Senior Lecturer/
Head: Clinical Unit
Bassa, S., MBChB(Natal) FRC(RadOnc)(SA)..... Senior Lecturer/
Medical Specialist
Hinson, L.A., MBChB(Cape Town) FC(RadOnc)(SA) ..... Senior Lecturer/
Medical Specialist
Westerink, H.H.P., MBChB MMed(Rad)(Pretoria)..... Senior Lecturer/
Medical Specialist

Department of Radiology

Lockhat, Z.I., MBChB(Natal) FFRad(D)(SA)	Associate Professor/ Head: Clinical Department (Head)
Ahmad, S., MBBS(Pakistan) FCRad(SA)	Adjunct Professor/ Head: Clinical Unit
Khan, N., MBChB FCRad(SA)	Adjunct Professor/ Head: Clinical Unit
Smal, J., MBChB MMed(Rad-D)(Pretoria)	Senior Lecturer/ Head: Clinical Unit
Van der Walt, E., MBChB MMed(Rad-D)Pretoria) FCRad(SA)	Senior Lecturer/ Head: Clinical Unit
Makanya, N.Z., MMed(Rad)(Diag)(Medunsa)	Senior Lecturer/ Head: Clinical Unit/ Specialist
Suleman, F.E., MBChB(Natal) FCRad(Diag)(SA)	Senior Lecturer/ Head: Clinical Unit
Van de Werke, I.E.A., MBChB DVG(Pretoria) DMRD FRCR(London)	Senior Lecturer/ Senior Medical Specialist
Davel, L., MBChB MMed(Rad)(Diag)(Pretoria)	Senior Lecturer/ Medical Specialist
Gongxeka, H.J.M., MBChB MMed(Rad)(Diag)(Pretoria)	Senior Lecturer/ Medical Specialist
Thebe, D.C., MBChB MMed(Rad)(Diag)(Medunsa)	Senior Lecturer/ Medical Specialist
Joseph, F., MBChB MMed(Rad)(Diag)(Pretoria)	Senior Lecturer/ Medical Specialist
Ahmed, R., MBChB PGDipGUS(Pretoria)	Senior Lecturer
Dada, N., MBChB PGDipGUS(Pretoria)	Senior Lecturer
De Korte, J., MBChB MMed(Rad)(Diag)(Pretoria)	Senior Lecturer
Dippenaar, L., MBChB PGDipGUS(Pretoria)	Senior Lecturer
Swanepoel, D., MBChB PGDipGUS(Pretoria)	Senior Lecturer

Department of Surgery

Mokoena, T.R., MBChB(Natal) FRCS(Glasgow) DPhil(Oxford)	Professor/ Head: Clinical Department (Head)
Mulaudzi, T.V., MBChB(Natal) FCS(SA)	Adjunct Professor/ Head: Clinical Unit
Pretorius, J.P., MBChB MMed(Surg)(Pretoria)	Adjunct Professor/ Head: Dept Intensive Care
Ntle, L.M., MBChB(Natal) FCS(SA)	Adjunct Professor/ Head: Clinical Unit
Karusseit, V.O.L., MBChB MMed(Surg)(Pretoria) LKC(SA)	Senior Lecturer
Du Plessis, H.J.C., MBChB MMed(Surg)(Pretoria) FCS(SA) FACS	Adjunct Professor/ Medical Specialist (Part-time)

Van der Walt, H., MBChB MMed(Surg)(Pretoria) FCS(SA) ..... Extraordinary Professor (Part-time)
Van Marle, J., MBChB MMed(Surg)(Pretoria) FCS(SA)..... Extraordinary Professor (Part-time)
Maluleke, M.R., MBChB MMed(Surg)(Medunsa) FCS(SA) ..... Senior Lecturer/ Head: Clinical Unit
Pienaar, B.H., MBChB(Pretoria) FRCPS(Glasgow) ChM(Cape Town) CEPW(Pretoria) ..... Senior Lecturer/ Head: Clinical Unit
Baloyi, M.L., MBChB(Medunsa) FCS(SA) ..... Senior Lecturer/ Medical Specialist
Motabeng, T.G., MBChB MMed(Surg)(Medunsa)..... Senior Lecturer/ Medical Specialist
Montwedi, O.D., MBChB(Medunsa) FCS(SA) ..... Senior Lecturer/ Medical Specialist
Ncgobo, T., MBChB(Medunsa) FCS(SA) ..... Senior Lecturer/ Medical Specialist
Sikhosana, M.H., MBChB (Natal) FCSC(SA) ..... Lecturer/ Medical Specialist
De Beer, A., MBChB MMed(Surg)(Pretoria) FRCS)(Edinburgh) FCS(SA) ..... Lecturer/ Medical Specialist (Part-time)
Du Plessis, A.A., MBChB MMed(Surg)(Pretoria) FCS(SA) ..... Lecturer/ Medical Specialist (Part-time)
Gordhan, G.I., MBChB MMed(Surg)(Pretoria) FCS(SA) ..... Lecturer/ Medical Specialist (Part-time)
Jekel, H., MBChB MMed(Surg)(Stellenbosch) ..... Lecturer/ Medical Specialist
Laage, N., MBChB MMed(Surg)(Pretoria) FCS(SA) FRCS(Edinburgh)..... Lecturer/ Medical Specialist (Part-time)
Maharaj, R., MBChB(Witwatersrand) FCS(SA) ..... Lecturer/ Medical Specialist
Malinga, S.V.M., MBChB(Medunsa) MMed(Pretoria) ..... Lecturer/ Medical Specialist (Part-time)
Osman, E., MBBS(Khartoum, Sudan) MMed(Surg)(Pretoria)..... Senior Lecturer/ Head: Clinical Unit
Magagula, N.C., MMed(Surg)(Pretoria) FCS(SA)..... Lecturer/ Medical Specialist
Mtshali, Z., MBChB(Natal) FRCS(Glasgow)..... Lecturer/ Medical Specialist (Part-time)
Scharf, G., MBChB MMed(Surg)(Pretoria) FCS(SA) LLB(Unisa)..... Lecturer/ Medical Specialist (Part-time)

Van Rooyen, MBChB MMed(Surg)(Pretoria)..... Lecturer/ Medical Specialist (Part-time)
Van Wyk, G., MBChB(Pretoria) MMed(Surg)(Stellenbosch)..... Lecturer/ Medical Specialist (Part-time)
Welkovics, N., MBChB MMed(Surg)(Pretoria) FCS(SA) Cert in Crit Care(SA)..... Lecturer/ Medical Specialist (Part-time) (Part-time)
Calzadilla-Cruz, M., MBChB(Havana) ..... Lecturer/Principal Medical Officer
Taszimirwa, T.T., MBChB HDipl Surgery(SA) ..... Lecturer/Principal Medical Officer
Meintjes, N., BSc BSc(Hons)(Pretoria)..... Principal Medical Scientist
Joubert, J.E.H., BNursSci(Hons)(Stellenbosch) ..... Senior Research Officer
De Jager, S., Dipl in GenNursSci & Midwifery(Pretoria) ..... Chief Professional Nurse

Cardiothoracic Surgery Division
Du Plessis, D.J., MBChB(Pretoria) MMed(ThoracSurg)(Stellenbosch) ..... Professor/ Head: Clinical Department (Head)
Jacobs, A.G., BSc(Western Cape) BSc(Hons) MSc MBChB MMed(Thorax)(Cape Town) FCS(SA)..... Senior Lecturer/ Head: Clinical Unit
Mogaladi, S.M., MBChB(Medunsa) MMed(ThoracSurg)(Pretoria)..... Senior Lecturer/ Medical Specialist

Paediatric Surgery Division
Müller, E.W., Staatsexamen (CH) MMed(Surg) (Free State) Cert Paed Surg(SA) ..... Senior Lecturer/ Head: Clinical Unit
Kirsten, M., MBChB (Free State) DCH(SA)..... Lecturer/Principal Medical Officer
Van Niekerk, M.L., MBChB MMed(Surg)(Pretoria)..... Extraordinary Professor/ Medical Specialist (Part-time)
De Villiers, M., MBChB MMed(Pretoria) FCPaedSurg(SA) ..... Lecturer/ Medical Specialist

Plastic Surgery Division
Coetzee, P.F., MMed(Plast Surg)(Pretoria)..... Associate Professor/ Head: Clinical Unit
Landman, N., MBChB(Free State) FCS(SA) FCS(Plast Surg)(SA).... Lecturer/ Medical Specialist

Van Der Merwe, H.J.M.G., MBChB MMed(Plast Surg)(Pretoria) FCS(Plast Surg)(SA) ..... Lecturer/ Medical Specialist (Part-time)
Maree, D.C., MBChB MMed(Plast Surg)(Pretoria) ..... Lecturer/ Medical Specialist (Part-time)
Eksteen, E., FCS(Plast Surg)(SA)..... Lecturer/ Medical Specialist (Part-time)

Department of Urology
Moshokoa, E.M., MBChB MMed(Urol)(Medunsa) FCS(Urol)(SA) ..... Senior Lecturer/ Head: Clinical Department (Head)
Abdul Feilat, R.A., MBChB(Milan) ..... Senior Lecturer/ Principal Specialist
Bornman, M.S., MBChB DSc MD(Pretoria) PrSciNat..... Senior Lecturer
Engelbrecht, M.J., MBChB(Pretoria) FCS(Urol)(SA)..... Senior Lecturer/ Medical Specialist
Gaudji,B.G.R., MBChB(Abidjan) ..... Senior Lecturer/ Medical Specialist
Kok, E.L., BA(Unisa) BA(Hons) MBChB(Pretoria) DTI DPD(Cardiff) FECSM ..... Senior Lecturer/ Medical Specialist
Debeil, Y., MBChB(Pretoria) FCS(Urol)(SA) ..... Lecturer/ Medical Specialist
Nothnagel, C.P., MBChB(Free State)..... Lecturer/ Medical Officer
Marais, C.F., MBChB(Free State)..... Lecturer/ Medical Officer
Parbhoo, M.N.B., MBChB(Pretoria)…… ..... Lecturer/ Medical Officer
Aneck-Hahn, N.H., DTech(BiomedTechnol)(TUT) ..... Extraordinary Lecturer
Ijane, K.K., MBChB(Cape Town) FC(Urol)(SA)..... Lecturer/ Medical Specialist

SKILLS LABORATORY
Delport, R., BA et Scien(Nursing)(Potchefstroom) BCur(Hons)(Int Care) MSc(Physiol) PhD) Med (Computer-integrated Education)(Pretoria) ..... Associate Professor (Head)

STUDENT ADMINISTRATION
Cooper, R.R., BA(Pretoria) BA(Hons)(Unisa)..... Executive Head
Anthony, C.H. ..... Coordinator: Applications and Selection
Eksteen, E. ..... Coordinator: Student Financing
Viljoen, M., BA BA(Hons) PGCHE MEd(Pretoria) ..... Coordinator: Undergraduate students
Strauss, J.A., BA HED(Pretoria)..... Coordinator: Postgraduate Students

GENERAL INFORMATION

1. **Admission**

Students who register at the University for the first time, or after an interruption of their studies, should apply for admission or readmission.

- **Undergraduate applications**

  Applications for admission to all undergraduate fields of study in the Faculty for which selection applies close on 31 May, as well as for new first-year students who apply for a transfer from BSc (Biological Sciences) or BSc (Medical Sciences) to MBChB I/BChD I. Applications for BCur(I et A) and Health Sciences Special (Undergraduate) close on 30 November.

- **Postgraduate applications**

  The closing dates for the following schools are:

  School of Dentistry:
  30 November

  School of Health Systems and Public Health:
  BScHons, MSc and Master of Public Health (MPH): 30 June
  Diplomas: 30 June

  School of Healthcare Sciences:
  Honours and master's: 30 September
  BRadHons: 30 September
  MPhysT and MOccTher: 31 October

2. **Selection**

A selection process takes place prior to admission to all the degree programmes in the Schools mentioned in the front part of this publication. For some of the undergraduate degree programmes a personal interview is required as part of the selection procedure. The National Benchmark Test (NBT) is compulsory for all applicants applying for admission to an undergraduate degree programme with the exception of the Bachelor of Clinical Medical Practice and students with previous tertiary exposure.

3. **National Benchmark Test (NBT)**

The National Benchmark Test is compulsory for applicants who are currently in Grade 12 or who have already completed Grade 12 and who wish to apply for admission to any field of study, with the exception of the Bachelor of Clinical Medical Practice as well as students with previous tertiary exposure, in the Faculty of Health Sciences. Applicants who fail to write this test will not be considered for selection. Academic Literacy, Quantitative Literacy and Mathematics are tested and applicants cannot specially prepare for the test. The test results will be used in addition to the Grade 12 marks for provisional selection and will not replace the Grade 12 marks.

4. **Undergraduate study programmes with their additional requirements:**

- **MBChB:**

  The Faculty can accommodate 300 first-year MBChB students. Applicants for MBChB I are evaluated according to different categories, with the minimum admission requirements set according to the categories in question.

  (a) Applicants who apply for selection, should have passed English with at

least a 5 rating code (60-69%), as well as Mathematics and Physical Science.

A minimum APS of 35 and a pass symbol are prerequisites for the various selection categories.

(b) It is not possible for candidates to complete the first year of study for this study programme at another South African university.

(c) A candidate who has passed a full academic year at another university, with at least four first-year subjects, will be considered for selection, but only for admission to MBChB I.

(d) Admission of foreign candidates is limited. Preference will be given to students from SADC countries.

(e) Candidates will be notified per SMS and in writing of the outcome of the selection.

(f) Candidates who have not been admitted to MBChB I, may register for a first year of study in the BSc degree programme in Biological or Medical Sciences at the University of Pretoria, provided that they qualify for admission. If they pass the prescribed first-semester modules, they may apply before 31 May of their first year of study, for a transfer to MBChB I as from the second semester (this is only allowed for students without any previous tertiary education).

(g) Candidates who have not been admitted to the first year of study for the MBChB degree programme, may apply for admission to any other degree programme at this University, provided that they comply with the entrance requirements for the degree programme in question; and may, on the grounds of that achievement, reapply for selection (changing to MBChB I).

- **BClinical Medical Practice:**
  Selection for BClinical Medical Practice is based on academic merit and is also subject to the general admission requirements of the University of Pretoria and the specific admission requirements for the BClinical Medical Practice degree as set out in Reg. M. 2A(a).

- **BChD:**
  (a) Candidates are not allowed to complete their first year of study at another university.

  (b) In terms of the selection procedure, candidates must pass English, Mathematics and Physical Science with at least a 5 rating code (60%-69%), and achieve an APS of at least 35, in order to be considered for selection and/or admission.

  (c) At the conclusion of the selection process, candidates are informed in writing regarding the outcome.

  (d) Admission of foreign students to the BChD degree programme is limited to one annually. Only applications of candidates from SADC countries are accepted.

  (e) Candidates who are not admitted to the first year of study for the BChD degree programme may register for the BSc degree programme in medical sciences or biological sciences at the University, provided that they comply with the admission requirements for the programme in question. A candidate who completes the first semester of such a degree programme successfully, may apply for admission to the second semester of BChD I on the grounds of this achievement. If successful, the student may be admitted to the second semester of BChD I.

- **Bachelor of Oral Hygiene:** Regulation D.1A of this publication contains the minimum requirements for subjects passed in the final Grade 12 examination according to the selection procedure. A minimum APS is required.
- **BPhysT:** Regulation H.16(a) of this publication contains the minimum requirements for subjects passed in the Grade 12 final examination according to the selection procedure. A minimum APS is required for the various categories.
- **BCur:** The stipulations of the selection procedure with regard to the required Grade 12 subjects are set out in Regulation H.1(b)(ii) of this publication.
- **BCur(I et A):** The admission requirements according to the selection procedure as well as the requirements with regard to registration with the South African Nursing Council are set out in Regulation H.2(b) and (c) of this publication. Additional admission requirements for Clinical Nursing Science also appear in par (c) of the regulation in question.

  Only students who can submit proof that they are registered as student nurses at an approved hospital, will be considered for admission.
- **BRad:** The admission requirements according to the selection procedure and the required Grade 12 subjects are set out in Regulation H.7(a) in this publication. A minimum APS applies to the various categories.
- **BOccTher:** Regulation H.11(a) of this publication contains the minimum requirements for subjects passed in the final Grade 12 examination according to the selection procedure. A minimum APS requirement applies to the various categories.
- **BDietetics:** Regulation H.19(a) of this publication contains the minimum requirements for subjects passed in the final Grade 12 examination according to the selection procedure. A minimum APS applies to the various categories.

5. **Statement of symbols**
When registering at this University for the first time, a candidate has to submit official proof of the symbols obtained in each subject in the final Grade 12 examination.

6. **National Senior Certificate**
All undergraduate candidates who enrol at the University of Pretoria for the first time, must show their original National Senior Certificate at the Student Administration of their faculty before the end of the first semester.

7. **Language of tuition**
In conducting its general business, the University uses two official languages, namely Afrikaans and English.
In formal education, the language of tuition is either Afrikaans or English or both languages, taking the demand as well as academic justification and economic viability into consideration. However, it remains the student's responsibility to determine in which language a module and any further level of that module is presented. This information is published annually in the Timetable. The University reserves the right to change the language of tuition on short notice, depending on the size of the groups and the availability of lecturers. In respect of administrative

and other services, a student may choose whether the University should communicate with him or her in Afrikaans or English.
Undergraduate: The **language policy** is flexible to accommodate all students in Afrikaans and/or English.
The use of English for all auditorium type lectures to large groups of students has been **phased in** from the first year of study, since 2002. The necessary support (e.g. visual teaching aids, study notes, tutorial sessions, repeating sections of the presentation during lectures) is provided to Afrikaans-speaking students as far as practically feasible.
Small-group lectures/discussions/tutorials are presented in the language of choice (Afrikaans or English) of the group, provided that the lecturer is proficient in the language.
All printed matter (study guides, block books, examination and test papers, notices etc.) is provided in the languages mentioned above.
Textbooks are provided in Afrikaans and/or English only.
Students can communicate orally as well as in writing, in Afrikaans and/or English, with lecturers and other members of staff. Tests and examinations may be written in Afrikaans or English.
Postgraduate: Presentation takes place in Afrikaans and/or English, taking into account the student's preference, but also with due allowance for available and effective utilisation of resources within the University. The language in which a dissertation or thesis will be presented, must be discussed with the supervisor or with the faculty, at the commencement of studies.

8. **Bursaries and loans**
Particulars of bursaries and loans are available on request.

9. **Accommodation**
Applications for accommodation in university residences for a particular year may be submitted as from 1 March the preceding year. Applications will be considered as long as vacancies exist, and prospective students are advised to apply well in advance. Please note that admission to the University does not automatically imply that accommodation will also be available.

10. **Welcoming day, registration and start of the academic year**
Details of the welcoming day to which all parents are cordially invited, and the subsequent programme for registration and start of the academic year during which all new first-year students **must** be present, are available on the web (www.up.ac.za).

11. **Prescribed books**
Lists of prescribed books are available for all study programmes. However, regarding all study programmes, the lecturers concerned will supply information regarding prescribed books to students when lectures commence.

12. **Amendment of regulations and fees**
The University retains the right to amend the regulations and to change study programme fees without prior notification.
NB The fees advertised and thus levied in respect of a module or study programme presentation represents a combination of the costs associated with the formal services rendered (for example lectures, practicals, access to laboratories, consumables used in laboratories, etc.) as well as associated overheads such as

the provision of library and recreation facilities, security and cleaning services, electricity and water supply, etc. Therefore the fees in respect of a module or study programme presentation cannot simply be reconciled with the visible services that are rendered in respect of such module or study programme.

13. **Leave of absence**

If it is impossible for a registered student at the University of Pretoria to continue with his/her studies/research in a specific year, but he/she intends to continue in the following year, the student must apply in writing to the dean of the relevant faculty for **leave of absence**. The application must include: full names, student number, address, reasons and period for leave of absence, for example the whole year, first semester (January to June) or second semester (July to December), name of supervisor (where applicable), and the student's intentions for the period after his/her leave of absence. However, in accordance with the policy of the University of Pretoria, leave of absence is not granted for more than two years. Any outstanding fees should be paid in full upon the student's return from his/her leave of absence.

DEFINITION OF TERMS

Familiarise yourself with the meaning of the undermentioned terms. They are used generally in all faculties and in particular in this Faculty.

academic year: the academic year as determined by the University Council
module: a defined aspect of a subject that forms a unit and to which a module code has been allocated
core module: a module that is compulsory for a specific programme or package
fundamental module: a module that can be regarded as the academic basis of the learning activities in a specific programme or package
elective module: a module that forms part of a package and can be taken by own choice, provided that adequate credits are obtained at the specified year level, according to the requirements for the qualification the student follows
hours of learning: the calculated number of hours a student is perceived to use to master the learning content of a specified module or programme. The total number of learning hours of a module comprises the time taken up by lectures, practicals, self-tuition and any other activity required according to the training programme. Learning hours of modules are normally calculated on the basis of 40 working hours per week x 28 week = 1120 + 80 additional hours for evaluation = 1200. For undergraduate modules, the total number of learning hours for a module is calculated according to the formula: number of credits of the module x 10.
credits: a number of credits allocated to each module that represents the amount of work and the extent of the module
curriculum: a series of modules from different subjects grouped together over a specified period of time and in a certain sequence according to the regulations
block: a module/modules presented as a block in a specified period of time during the academic year
block mark is calculated from the continuous evaluation opportunities during the course of the presentation of the relevant block
block examination: examination on the total content of a block. This is scheduled at the end of a block/semester
final block mark is calculated from the block examination mark and the block mark (continuous evaluation) in a 50:50 or 60:40 ratio
package: a group of modules with a specific coherence and focus, selected as a specialisation within a programme by students

examination mark: the mark a student obtains in the examination of a module, including practical and clinical examinations where applicable
final mark: is calculated from the examination mark as well as the mark compiled from the continuous evaluation during the presentation of the module
GS: a combined mark (semester/year mark plus examination mark) of at least 40% required for admission to a specific prescribed module
module level or level: an indication of the level of complexity of a module (e.g. first, second or further level), which also implies a particular credit value. The (year) level is indicated by the first digit of the module code (e.g. FLG 322 is a module at level three of the physiology discipline)
anti-semester modules (for MBChB I and BChD I): modules of a subject normally presented in the first semester, which can be repeated in the second semester and whereby students have another opportunity to attempt passing the modules in question in the same year. (**NB:** Only certain departments present modules on an anti-semester basis.)
semester module: a module that extends over one semester
semester/year/continuous evaluation mark: the mark awarded to a student on the grounds of continuous evaluation during the presentation of a module. Consult par.6 under GENERAL ACADEMIC INFORMATION in this publication for further details.
subject: a demarcated field of study of which one module or more may be selected for the study of a degree or diploma
syllabus: the arrangement of the study material for a specific module
year module: a module extending over one year
extended study programme: a study programme for a degree or diploma taken over a period longer than the minimum duration for the degree or diploma according to regulation.
admission procedure: also includes the selection procedure
package coordinator: the person responsible for organising, compiling and teaching as well as guidance in respect of a particular package
programme manager: the person responsible for the overall management, organisation and compilation of a particular programme plus the packages falling under that programme
certificate of satisfactory preparation: satisfactory preparation also implies satisfactory attendance of practical classes and clinical work.
grade point average based on module credits: an average mark that is calculated by multiplying the final mark achieved in a module with the credit value of that module and then dividing the sum of these values by the total of the credit values of all the modules for which a student was enrolled. The result of these calculations is a weighted average based on module credits.

GENERAL ACADEMIC INFORMATION

The regulations with regard to degrees, diplomas and certificates appearing in this publication, are subject to change and may change before the commencement of the academic year 2014.

1. Admission to undergraduate studies and diploma studies

1.1 General

1.1.1 To register for a first bachelor's degree at this University, a candidate must, in addition to the required National Senior Certificate with admission for degree purposes, also comply with the specific admission requirements for particular modules of a subject and study programmes as prescribed in the admission procedure and the departmental regulations of the various schools.

1.1.2 The following persons may also be considered for admission:
Note: A conditional exemption certificate does not grant admission to bachelor's degree studies. The School of Healthcare Sciences will, however, accept a certificate of conditional exemption by virtue of mature age (23 years and older) in the case of the BCur(I et A) degree study, provided that the applicant concerned complies with the minimum requirements set by the Matriculation Board and the School in question, in respect of Grade 12 subjects already completed. Candidates are advised to contact the Head of the Department of Nursing Science in this regard.

1.1.3 The Senate may limit the number of students allowed to register for a study programme, in which case the Dean concerned may, at his own discretion, select from the students who qualify for admission, those who may be admitted.

1.1.4 Subject to differently worded faculty regulations and the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to postgraduate bachelor's degree studies, if he or she is in possession of a recognised bachelor's degree.

1.2 Requirements for admission to specific modules

A student who has

(a) obtained at least 50% in the final Grade 12 examination in Mathematics as well as in Physical Science, will be admitted to Molecular and cell biology (MLB 111), and a module in the subjects Chemistry, Physics, Zoology and Entomology, Genetics, Microbiology or Botany;
(b) obtained at least 50% in the final Grade 12 examination in Mathematics as well as in Physical Science, will be admitted to a module in Radiation Physics (RFI);
(c) obtained at least 40% in the final Grade 12 examination in either Physical Science or Life Sciences, will be admitted to modules in Occupational Therapy and Therapeutic Media;
(d) obtained at least 60% in the final Grade 12 examination in Mathematics, will be admitted to the module WTW 158 in Mathematics; and
(e) obtained at least 50% in the final Grade 12 examination in Mathematics, will be admitted to the module WTW 134 in Mathematics.

1.3 Admission requirements for candidates with a National Senior Certificate

To be able to gain access to the faculty and specific programmes, prospective students require the appropriate combinations of recognised NSC subjects as well as certain levels of achievement in the said subjects. In this regard the determination of an admission point score (APS) is explained and a summary

of the faculty specific requirements, i.e. the admission point score (APS) per programme and the specific subjects required per programme is provided.

1.4 **Determination of an Admission Point Score (APS)**

The calculation is simple and based on a candidate's achievement in six 20-credit recognised subjects by using the NSC ratings, that is the "1 to 7 scale of achievement". Thus, the highest APS that can be achieved is 42.

Life Orientation is excluded from the calculation determining the APS required for admission.

Rating code	Rating	Marks %
7	Outstanding achievement	80-100%
6	Meritorious achievement	70-79%
5	Substantial achievement	60-69%
4	Adequate achievement	50-59%
3	Moderate achievement	40-49%
2	Elementary achievement	30-39%
1	Not achieved	0-29%

Provisional selection is based on the results obtained in the final Grade 11 examination. Final admission in the following year is based on the final Grade 12 results, which will be the determining factor to actually commence with the studies.

1.5 **Specific admission requirements for the Faculty of Health Sciences**

1.5.1 A valid National Senior Certificate with admission for degree purposes.

1.5.2 General requirements and procedures (see University's website for further information):

- Applicants are considered in two categories, namely matriculants and university students.
- Selection takes place in all programmes.
- Selection for MBChB and BChD is based on academic merit, the National Benchmark Test and the Value-added Questionnaire.
- Selection for BClinical Medical Practice is based on academic merit and a Biographical Information questionnaire. Also subject to the general admission requirements of the University of Pretoria and the specific admission requirements for the BClinical Medical Practice degree as set out in Reg. M. 2A(a).
- Selection for BCur, BOccTher, BRad, BPhysT and BDietetics is based on academic merit, the National Benchmark Test and the Value-added Questionnaire.
- Selection for BOH – Oral Hygiene – is based on academic merit and the National Benchmark Test.

1.5.3 Minimum subject and level requirements:

Degree	Group A		Group B
	English	Mathematics	Physical Science
MBChB	5 (60-69%) in English (at Home Language level or First Additional Language level)	5 (60-69%)	5 (60-69%)

Degree	English	Mathematics	Physical Science
BClinical Medical Practice	4 (50-59%) in English (at Home Language level or First Additional Language level)	4 (50-59%)	–
BPhysT	4 (50-59%0) in English (at Home Language level or First Additional Language level)	4 (50-59%)	4 (50-59%)
BDietetics	4 (50-59%) in English (at Home Language level or First Additional Language level)	4 (50-59%)	4 (50-59%)
BRad	4 (50-59%) in English (at Home Language level or First Additional Language level)	4 (50-59%)	4 (50-59%)
BOccTher	4 (50-59%) in English (at Home Language level or First Additional Language level)	4 (50-59%)	5 (60-69%)
BCur	4 (50-59%) in English (at Home Language level or First Additional language level)	–	–
BChD	5 (60-69%) in English (at Home Language level or First Additional Language level)	5 (60-69%)	5 (60-69%)
BOH	4 (50-59%) in English (at Home Language level or First Additional Language level)	4 (50-59%)	4 (50-59%)

2. **Registration for a particular year of study**
   At the beginning of an academic year, a student registers for all the modules he or she intends taking in that particular year (whether these be first-semester, second-semester or year modules).

3. **Credit for modules passed by unregistered students**
   There are students who attend lectures, write tests and examinations and in this manner earn marks, but have either not registered for modules or have not registered as students at all. These marks will not be communicated to any student before he/she has provided proof of enrolment.
   A student cannot obtain any credits in a specific academic year for a module 'passed' in this manner during a previous academic year and for which he/she was not registered. This arrangement applies even where the student is prepared to pay the tuition fees.

4. **Academic Literacy Test**
   All new undergraduate students who register in the Faculty of Health Sciences, will be required to write an academic literacy test. On the grounds of this test, students will be required to follow compulsory academic literacy modules (ELH modules) which they must pass as one of the requirements for obtaining their degree.

5. **Academic information management**
   The University of Pretoria requires all undergraduate students to complete the module AIM 101 Academic information management 101.
   Details of the module can be found in the LIST OF SERVICE MODULES.

6. **Subminimum in examination papers**
Where applicable, the subminimum required in examinations appears in the regulations of the degree/diploma in question and in the syllabi of the modules in question.

With regard to MBChB:
A subminimum may be required in each module or practical component from which a specific block is compiled, in order to pass in the block in question.

7. **Examinations**
The examinations in first-semester modules take place in May/June, while all other examinations (second-semester modules, year modules and blocks of the MBChB degree programme) take place in October/November.
Consult the study manual of a given block for details of the School requirements for examinations in the MBChB curriculum.

8. **Ancillary examinations**
After conclusion of an examination and before examination results are announced, the examiners may summon a student for an ancillary examination on particular aspects of a module.
Details in respect of a School's requirements for ancillary examinations are published in the study guide of a given block.

9. **Extraordinary examinations (including aegrotats)**
Subject to the stipulations of General Regulation G.12, the period during which an extraordinary examination will take place in the School of Medicine, will be determined by the lecturer concerned, in consultation with the relevant head of department or block chairperson, provided that the examination in a block should take place during the second examination period, if possible.
If an examination consists of more than one evaluation modality, the examination as a whole must be repeated, even if part thereof has already been completed.

10. **Re-marking of examination scripts**
In accordance with the stipulations of General Regulation G.14, departments give feedback to students after an examination on the framework used by the examiners during the examination. The way in which feedback is given, is determined by the head of department. Students may, after perusal, and in the case of MBChB students, after the examination period (which includes the examination and the second examination), within 14 calendar days after commencement of the lectures in the next semester, and after payment of the prescribed fee, apply for the re-marking of an examination script, by an examiner (in the case of MBChB study an **external** examiner from outside of the University) appointed by the head of department concerned.
The School of Medicine furthermore defines the relevant regulation as follows:

(i) A student has the right of **perusal** of his or her examination script **before** applying for the re-marking of the examination script.
The following is determined by perusal of the script:
- Whether all the answers have been marked.
- Whether the marks awarded, have been calculated correctly.
- Whether the student did in fact answer all the questions.

(ii) **During perusal, the student, the lecturer as well as a third person must be present.**

If a discussion about the content of the answers in the script develops, the student must be referred to the administration of the School in question, **where he or she applies for the re-marking of the examination script.**

11. **Second examination opportunity**

(i) A student may be admitted to a second examination in a module in the following instances [excepting specific faculty requirements in respect of second examinations in specific blocks for the first to the fifth year of study for the MBChB degree (consult Reg. M.1(b)] and the first and second year of study for BChD (consult Reg.D.1(b):
   (aa) If a final mark of between 40% and 49% has been obtained.
   (bb) If a pass mark has been obtained but not the required subminimum of 40% in the examination as a whole; or
   (cc) If a pass mark has been obtained but not the required subminimum in subsections of the module.

(ii) A student must obtain a minimum of 50% in the second examination to pass.

(iii) The semester/year/continuous evaluation mark is taken into account only if a student did not obtain at least 50% in the second examination of a first-semester module at 100 level.

(iv) The highest final mark (pass mark) that can be awarded to a student for a second examination, is 50%.

12. **Promotion**

In certain departments, students can be promoted to a next semester or level of a subject without writing the prescribed examination, provided that their preparation is satisfactory and a continuous evaluation mark of at least 65% has been obtained.

Departments where promotion as prescribed above is possible, will inform students in good time in this regard.

Note:

- Students obtain credit for a promoted module only after they have passed an examination in a consecutive module or modules of the subject in question at this University.
- Promotion as described above, **does not** refer to the option that medical students may exercise to have the block mark at the end of the year, validated as the final block mark for a relevant block (i.e. to be exempted from the block examination in the block), provided, inter alia, that a block mark of at least 60% has been obtained in the block in question.

13. **The examination moderating meeting**

13.1 **Students in Year 1 - 3:**

(i) Students obtain class test, practical and block test marks in respect of each block and special activity (which are disclosed to students). These marks are processed into a block mark (which is not disclosed to students). Each block chairperson publishes a list of the registration numbers of students who have to sit the semester examination in his or her block. The block marks are submitted to Student Administration. Students with examination exemption, who nevertheless prefer to sit the block examination, may do so, but will then have to accept the final block mark (which is calculated from the block mark and the examination mark), even if it is less than the (original) block mark.

(ii) The final block mark of the students who have to sit the examination, is only determined at the end of the block examination, from the contributions of the block mark and the examination mark. This final block mark will reflect the real mark obtained. The EMM (Examination Moderating Meeting) now takes place with the following objectives:
- Identification of the students who pass;
- Identification of the students who fail and as a result, have to follow the remedial programme and sit the second block examination;
- Validation of the block marks of the students who have been exempted from the examination, as the final block marks for the blocks in question; and
- Identification of students who need study assistance.

(iii) Students who fail the examination, must follow the remedial programme and sit the second block examination at the end of the second semester. Only the second block examination mark will count and the maximum that can be obtained is "50H".

(iv) The performance of the students who have written the second examination, will be discussed at the second EMM, with the following objectives:
- Identification of the students who pass; and
- Identification of the students who fail. In terms of the MBChB selection criteria, first- and second-year students who fail, must apply again for selection.

13.2 **Students in Year 4 and the first half of Year 5: MBChB**

(i) During the blocks and special activities, students write the class tests as well as the block test. These marks are announced by the block chairperson.

(ii) Students also do morning rotations, each of which is evaluated.
There are eight morning rotations in Year 4, and five in the first half of Year 5. These rotation marks are announced by the relevant departments.

(iii) The block mark is calculated from the different test marks, marks awarded for practical work and assignments, as well as the rotation(s) coupled to the specific block. In Year 4, this mark can only be calculated in middle September and in Year 5, only in middle May. These marks are not disclosed to students. A list of the registration numbers of students, who have not obtained examination exemption, is placed on the notice board by the block chairperson. These students are obliged to write the block examination. The block marks are submitted to Student Administration.
Students who nevertheless choose to write the examination, even though they have been exempted from it, may do so, but will have to accept the final block mark, even if it is lower than the (original) block mark.

(iv) The final block mark of the students who sit the examination is only calculated at the end of the block examination, from the contributions from the block mark and the examination mark. This final block mark will reflect the real mark obtained. An EMM is now being held, with the following objectives:
- Identification of the students who pass;
- Identification of the students who fail and resultantly have to follow the remedial programme and sit the second block examination;
- Validation of the block marks of the students with examination exemption, as their final block marks; and
- Identification of the students who need study assistance.

(v) Students who fail the examination, must follow the remedial programme and sit the second block examination, which will take place at the end of the second semester in Year 4, and at the beginning of the second semester in Year 5. Only the second block examination mark will count and a maximum of "50H" can be obtained.

(vi) Students who sit the second examination, are discussed at the second EMM, with the following objectives:
- Identification of the students who pass; and
- Identification of the students who fail.

13.3 **Student Interns: MBChB**

13.3.1 **All students**

(i) At the conclusion of each seven-week rotation, an end-of-rotation evaluation (EORE) takes place in the different departments. The aim with the EORE is the identification of those students who obtain examination exemption (semester examination) and those who are not exempted and will have to sit the examination at the end of the semester. All EOREs are supported by external examiners.

(ii) The same process takes place in rotations with a duration of 3,5 weeks.

(iii) No marks are disclosed to students, only the names and/or registration numbers of the students who must sit the semester examination.

(iv) After conclusion of the semester examination (which extends over three days on dates determined beforehand), an EMM is held, with the following objectives:
- Validation of the rotation marks as the semester examination mark, of the students who have obtained examination exemption. The rotation mark and the EORE mark contribute to the final mark.
- Identification of the students who have passed the semester examination. The rotation mark and the semester examination mark contribute to the final mark;
- Identification of the students who have failed the semester examination. These students are referred to Student Administration, as a new rotation division must now be followed; and
- Identification of the students who need study assistance.

13.4 **Students who repeat rotations: MBChB**

(i) Students who repeat rotations, do the EORE at the conclusion of the rotation that has been repeated. The objective is to obtain a pass mark. The continuous evaluation marks and the EORE mark contribute to the final mark.

(ii) On the first Wednesday after the conclusion of the rotation, an EMM takes place at 13:00 (or a different timeslot as arranged), to evaluate the achievement of the students, who have repeated the rotation. The objectives of this EMM are:
- Identification of the students who pass the rotation that has been repeated (final mark of 50% or more) (maximum indicated on the form is "50H");
- Identification of the students who fail the rotation that has been repeated. These students are referred to Student Administration, as a new rotation division must now be followed; and
- Identification of the students who need study assistance.

(iii) The achievement of the students who have repeated a 3,5 week rotation, is discussed at the same EMM.

13.5 **Students who are "finalists" at another time than the end of the sixth year of study: MBChB**

13.5.1 Students who repeated previous rotations successfully, and who are now "finalists", but will be doing the current rotation for the first time:

(i) These students do the EORE just like all other students do, the objective being, as in the case with other students, to identify those who do or do not obtain, exemption from the semester examination.

(ii) Students who obtain examination exemption after the conclusion of the EORE, thus pass the rotation automatically.

(iii) Students who do not obtain exemption from the semester examination after the conclusion of the EORE, must therefore sit the examination at the end of the relevant semester.

(iv) In keeping with UP regulations, these students, who are completing their studies ("finalists"), who have only one course (rotation) to complete in order to comply with all the requirements for the MBChB degree, and who have not obtained examination exemption, may apply to sit a "special examination" the following week (at a time earlier than the semester examination where applicable). This examination (which will take place at an earlier time), must preferably be scheduled for the Monday or Tuesday of the following week. The department determines the format and due to the fact that the student has already been through the external evaluation process, the presence of an external examiner at the special examination is optional, although recommended. The final mark comprises the examination mark and must be 50% or more to pass. The marks must be available by the Wednesday in order that these students' marks can be submitted to the EMM, which will be held on that day.

(v) The objectives of the EMM for this category of students are:

- Identification of the students who have passed the special examination. These students complete the programme, and a special mini oath-taking ceremony is arranged for them; and
- Identification of the students who have failed the special examination. These students fail the course, must repeat the relevant rotation and must therefore be referred to Student Administration.

13.6 **Students who are "finalists", but who are repeating the current rotation (all circumstances – previously, or at a recent EMM, identified as having failed): MBChB**

(i) These students do the EORE as all other students. The objective is to obtain a pass mark. The continuous evaluation marks and the EORE mark contribute to the rotation mark, which, in this case, is also the final mark. The mark must be 50% or more, but the maximum that will be indicated on the form, is "50H".

(ii) On the first Wednesday after the conclusion of the rotation, an EMM will be held at 13:00 (or another time slot as arranged), to evaluate the achievement of these students who are repeating the current rotation. The objectives of this EMM are:

- Identification of the students who have passed the EORE/examination. These students thus complete the MBChB degree programme and a mini oath-taking ceremony will be arranged for them; and

- Identification of the students who have failed the EORE/examination. These students thus fail the rotation, must repeat the relevant rotation and must therefore be referred to Student Administration.

(iii) Students in this category, who are only repeating a 3,5 week rotation, will follow the exact same route, but a unique EMM will be arranged shortly after completion of the EORE/examination. The same objectives will apply.

14. **Conferment of the MBChB degree during graduation ceremonies**

Students who will comply with all the requirements for the MBChB degree by 28 February, will receive the degree in question officially during the Autumn graduation ceremonies in April of the particular year.

Students who will only comply with all the requirements for the MBChB degree during or after March, will receive the degree in question officially during the Spring graduation ceremonies in September of the particular year.

DEGREES AND DIPLOMAS CONFERRED/AWARDED

The following degrees and diplomas are conferred/awarded in the Faculty of Health Sciences in respect of the Schools of Dentistry, Healthcare Sciences, Health Systems and Public Health and Medicine (minimum duration of study in brackets):

(a) **Bachelor's degrees:**
- (i) Bachelor of Medicine and Surgery – [MBChB] (6 years)
- (ii) Bachelor of Clinical Medical Practice – [BClinical Medical Practice] (3 years)
- (iii) Bachelor of Dentistry – [BChD] (5 years)
- (iv) Bachelor of Oral Hygiene – [BOH] (3 years)
- (v) Bachelor of Nursing Science – [BCur] (4 years)
- (vi) Bachelor of Nursing Science (Education and Administration) – [BCur(I et A)] (3 years)
- (vii) Bachelor of Radiography – [BRad] (3 years) (Fields of specialisation: Consult Reg. H.7)
- (viii) Bachelor of Occupational Therapy – [BOccTher] (4 years)
- (ix) Bachelor of Physiotherapy – [BPhysT] (4 years)
- (x) Bachelor of Dietetics – [BDietetics] (4 years)

(b) **Honours degrees:**
- (i) Bachelor of Science Honours – [BScHons] (1 year full-time; 2 years part-time) [Fields of specialisation mentioned under the relevant schools]
- (ii) Bachelor of Radiography Honours – [BRadHons] (2 years part-time) [Fields of specialisation: Consult Reg. H.8(b)]
- (iii) Bachelor of Nursing Science Honours – [BCurHons] (1 year) (Suspended until further notice)
- (iv) Bachelor of Occupational Therapy Honours – [BOccTherHons] (2 years) (Suspended until further notice)
- (v) Bachelor of Dietetics Honours – [BDieteticsHons] (1 year full-time, or a maximum of 5 semesters part-time)

(c) **Master's degrees:**
- (i) Master of Medicine – [MMed] (4 to 5 years) (The field of specialisation is indicated in brackets – consult Reg. M.3).
- (ii) Specific master's degrees:
  - (aa) Master of Medical Pharmacology – [MPharmMed] (3 years)
  - (bb) Master of Military Medicine – [MMilMed] (3 years)
  - (cc) Master of Philosophy in Philosophy and Ethics of Mental Health – [MPhil (Philosophy and Ethics of Mental Health)] (1 year full-time or 2 years part-time – with choice of e-learning)
  - (dd) Master of Philosophy in Pain Management – [MPhil (Pain Management)] (2 years with 3 contact sessions per year)
  - (ee) Master of Early Childhood Intervention – [MECI] (2 years part-time)
  - (ff) Master of Public Health – [MPH] (2 years)
- (iii) Master of Science – [MSc] (1 year) [Fields of specialisation mentioned under the different schools.]
- (iv) Master of Nursing Science – [MCur] (1 year) [Fields of specialisation: consult Reg. H.4]
- (v) Master of Radiography – [MRad] (1 year) [Fields of specialisation: consult Reg. H.9]
- (vi) Master of Occupational Therapy – [MOccTher] (2 years) [Fields of specialisation: consult Reg. H.13]

(vii) Master of Physiotherapy – [MPhysT] (2 years) [Fields of specialisation: consult Reg. H.17]
(viii) Master of Dietetics – [MDietetics] (1 year)
(ix) Master of Science Dentistry – [MScDent] (4 semesters part-time)
(x) Master of Dentistry – [MChD] (4 to 5 years) (Fields: See Reg. D.3)

(d) **Doctorates:**
(i) Doctor of Philosophy – [PhD] (1 year) (Schools of Medicine, Healthcare Sciences, Dentistry and Health Systems and Public Health) [Fields mentioned under different schools]
(ii) Doctor of Medicine – [MD] (1 year) [Fields of specialisation: consult Reg. M.13]
(iii) Doctor of Nursing – [DCur] (by virtue of publications)
(iv) Doctor of Occupational Therapy – [DOccTher] (1 year)
(v) Doctor of Science – [DSc] (by virtue of publications)

(e) **Diplomas:**
(i) Postgraduate Diploma in Family Medicine – (1 year)
(ii) Postgraduate Diploma in General Ultrasound – [PGDipGUS] (2 years)
(iii) Postgraduate Diploma in Dentistry – [PGDipDent] (2 semesters part-time)
(iv) University Diploma in Oral Hygiene – [UnivDipOH] (2 years) (Replaced by Bachelor of Oral Hygiene)
(v) Advanced University Diploma in Oral Hygiene – [AdvUnivDipOH] (2 semesters part-time)
(vi) Postgraduate Diploma in Vocational Rehabilitation – [DVR] (1 year)
(vii) Postgraduate Diploma in Interpersonal Communication and Group Techniques in Occupational Therapy – [DCG] (1 year) (Suspended until further notice)
(viii) Postgraduate Diploma in Group Activities – [DGA] (1 year)
(ix) Postgraduate Diploma in the Handling of Childhood Disability – [DHCD] (1 year)
(x) Postgraduate Diploma in Hand Therapy – DHT (1 year)
(xi) Postgraduate Diploma in Dietetics – (1 year) (Suspended until further notice)
(xii) Postgraduate Diploma in Tropical Medicine and Health – [DTM&H] (1 year)
(xiii) Postgraduate Diploma in Public Health – [DPH] (2 years)
(xiv) Postgraduate Diploma in Health Systems Management – [DHSM] (2 years)
(xv) Postgraduate Diploma in Occupational Medicine and Health – [DOMH] (2 years)
(xvi) Postgraduate Diploma in Occupational Health – [DipOH] (2 years)
(xvii) Postgraduate Diploma in Clinical Evidence and Healthcare – [DipCEHM] (2 years) (Suspended)
(xviii) Postgraduate Diploma in Public Health Medicine – [DipPHM] (2 years)

Note: Students who take a module offered by another faculty, must familiarise themselves with the admission requirement and/or prerequisites for the module in question as well as subminimum in examinations, second examinations, etc.

General Regulations G.1 to G.15 apply to a bachelor's degree.

Note: The four Schools in the Faculty, each with the regulations of their different programmes, appear in alphabetical order in this publication:
School of Dentistry
School of Healthcare Sciences
School of Health Systems and Public Health
School of Medicine

SCHOOL OF DENTISTRY

I. BACHELOR'S DEGREE

General Regulations G.1 to G.15 are applicable to bachelor's degrees and *mutatis mutandis* to the undergraduate diploma.

D.1 Bachelor of Dentistry [BChD] (Code 11130001)

NB
Selection of candidates takes place prior to admission.
Each student in Dentistry must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Dentistry, within two months after the commencement of the first year of study. Students, who have been granted exemption from the first or second year of study, must also comply with the registration requirements.

NOTE: FOR STUDENTS WHO REGISTERED FOR THE BChD DEGREE PROGRAMME PRIOR TO 2014, THE RELEVANT REGULATIONS AS THEY APPEAR IN THE 2013 YEARBOOK WILL BE APPLICABLE

(a) **Duration**
Five years of full-time study.

(b) **Passing a module**
A **module mark** is calculated from the continuous evaluation opportunities during the course of the presentation of the module in question. These evaluations shall include one or more of the following:
(i) Evaluations regarding theoretical knowledge.
(ii) Evaluations regarding clinical knowledge and skills.
(iii) Compulsory attendance at and active participation in prescribed activities.
(iv) A final comprehensive module examination moderated by external examiners.

(c) **Repeating modules (and thus the year of study)**
(i) Students must pass all the modules of a particular year of study in order to be admitted to the next year of study.
(ii) Students who repeat the first or second year of study are exempted from the modules which have been passed in the unsuccessful year. The examination moderating meeting, in conjunction with the Dean/Chairperson of the School of Dentistry, retains the right to only award a pass mark in the said modules, if the student complies with the following requirements regarding those modules:
- That the mark awarded to the relevant module was not awarded on the grounds of condonement;
- That the student attended the relevant module regularly and furthermore complied with all other requirements.

(d) **Examinations and pass requirements, subminima and continuous evaluation mark**
(i) In accordance with the stipulations of General Regulation G.10 (2), no minimum year or semester mark is required for admission to the examination:

Provided that the different year and semester modules in a School need not be handled in the same manner, although a great degree of uniformity is expedient. Any other requirements for admission to the examination are set out in the study manuals. A final mark of at least 50% is required to pass (see also Reg. D.1(b) (i)).

(ii) **Subminimum**
A subminimum of 40% is required in the written section of an examination, with a subminimum of 50% in the clinical section of a module. At the beginning of the academic year, the head of department informs the students of the required subminimum in subsections of the modules offered by the department in question. This information is also published in the study manual.

(iii) **Continuous evaluation mark**
A student obtains marks for practical and clinical work, for tests and also for assignments completed during the course of an academic year.

(iv) A student who repeats a year of study and who must acquire certificates of satisfactory preparation in failed modules, must comply with all the requirements set by the head of department.

(e) **Provisions regarding promotion modules**
The stipulations of General Regulation G.10.1 concerning satisfactory preparation and progress also apply to modules where a promotion test is required. Supplementary examination marks and pass marks in promotion modules are awarded according to the stipulations of General Reg. G.12: Provided that:

(i) Promotion is based on theoretical and/or practical and/or clinical evaluation throughout the year and a minimum of 50% is required to be promoted.

(ii) A student, who has obtained a year mark of less than 50% can be admitted by the examination moderating meeting to a supplementary promotion test in the relevant promotion module.

(iii) Students repeating a year of study retain credit for examination modules passed, unless determined otherwise, but a certificate of satisfactory preparation and progress must be obtained in all the promotion modules.

(iv) In order to comply with the requirements for (iii) and to maintain a specified level of clinical skills, the extent of involvement of students in successfully completed promotion modules is determined by the relevant module chairperson, at the commencement of the year, and agreed with the student(s) concerned.

(f) **Academic exclusion from further study**

(i) A student following a BChD degree will only be allowed two opportunities to repeat a year of study.

(ii) A student who does not comply with the abovementioned requirement but nevertheless wishes to be admitted to the School, may request the Dean/Chairperson of the School in writing, to consider his or her application for readmission in accordance with the prescribed procedure.

(iii) If a student fails one or more first-year modules (and therefore is not admitted to the second year of study), such a student forfeits his or her selection and must apply again for selection with a view to admission to the first year of study.

(iv) A student, who has failed a year of study for the second time before completing BChD II is excluded from the programme and must apply again for selection with a view to readmission to the second year of study.

(g) **BChD programme: five-year curriculum**

Total number of credits: 1038

Note:

(i) A new curriculum, as reflected below, is being phased in for the programme. The first year of study will be followed for the first time in 2014, the second year in 2015, the third year in 2016, the fourth year in 2017 and the fifth year in 2018.

(ii) The total credits and regulations for the degree programme in this publication are applicable to the new curriculum being phased in.

New curriculum

First year

Module	Module code	Credits
General physics 131	PHY 131	16
People and their environment 112	MGW 112	6
Molecular and cell biology 111	MLB 111	16
Medical terminology 180	MTL 180	12
Chemistry 151	CMY 151	16
Science and world views 155	FIL 155	6
Anatomy 188	GNK 188	56
Integrated dentistry 170	IDE 170	28
Public oral health 170	POH 170	5
Sepedi 110	SEP 110	12
Academic information management 101	AIM 101	6
Academic English for Health Sciences 111, 112	ELH 111, 112	12
	Total credits	**191**

Second year

Module	Module code	Credits
Basic emergency care 286	GNK 286	5
Generic procedural skills 280	GPS 280	2
Anatomy 289	GNK 289	40
Physiology 270	FSG 270	72
Oral biology 270	MDB 270	11
Integrated dentistry 270	IDE 270	37
Public oral health 270	POH 270	12
Odontology 270	ODO 270	6
Prosthodontics 270	PRD 270	3
IsiZulu 110	ZUL 110	12
Afrikaans 111	AFR 111	12
	Total credits:	**212**

Third year

Module	Module code	Credits
Applied medicine 370	TGG 370	11
Clinical pharmacotherapy 370	FAR 370	8
Generic procedural skills 370	GPS 370	5
Comprehensive patient management 370	TBW 370	18
Odontology 370	ODO 370	43
Periodontology 370	PDL 370	8
Orthodontics 370	ORD 370	6

Orofacial surgery 370	OFC 370	12
Prosthodontics 370	PRD 370	41
Diagnostic imaging 370	RAD 370	8
Public oral health 370	POH 370	4
Anatomical pathology 370	ANP 370	22
General and oral microbiology 370	GOM 370	23
	Total credits:	**209**

Fourth year

Module	Module code	Credits
Comprehensive patient management 470	TBW 470	19
Odontology 470	ODO 470	63
Maxillofacial pathology 470	MFP 470	11
Periodontology 470	PDL 470	8
Orthodontics 470	ORD 470	21
Orofacial surgery 470	OFC 470	41
Prosthodontics 470	PRD 470	26
Anaesthesiology 470	TMZ 470	16
Diagnostic imaging 470	RAD 470	13
Public oral health 470	POH 470	6
	Total credits:	**224**

Fifth year

Module	Module code	Credits
Comprehensive patient management 570	TBW 570	16
Odontology 570	ODO 570	52
Maxillofacial pathology 570	MFP 570	10
Periodontology 570	PDL 570	16
Orthodontics 570	ORD 570	22
Orofacial surgery 570	OFC 570	42
Prosthodontics 570	PRD 570	31
Diagnostic imaging 570	RAD 570	8
Public oral health 570	POH 570	5
	Total credits:	**202**

Note:

(i) In 2014 the second to fifth year of study will still be followed according to the old curriculum, as reflected below.

(ii) Students who fail a year in the existing curriculum immediately prior to the year of the implementation of the revised curriculum will have to repeat all the modules for that particular year in the revised curriculum.

(iii) The total credits and regulations for the old curriculum appear in the 2013 Yearbook and are applicable for students who registered for the BChD degree programme prior to 2014.

Old curriculum

Second year

Module	Module code	Credits
Homeostasis 280	BOK 280	42
Anatomy (Dissection) 288	GNK 288	37
People and their environment 283	BOK 283	31
Pathological conditions 285	BOK 285	22

Infectious diseases 287	BOK 287	23
Basic emergency care 286	GNK 286	5
Generic procedural skills 280	GPS 280	2
Introduction to clinical dentistry 200	IKT 200	10
Special study module 211	SMO 211	5
Special study module 281	SMO 281	5
Longitudinal clinic attachment programme	LCP 280	-
	Total credits:	**180**

Third year

Module	**Module code**	**Credits**
Head and neck anatomy 388	GNK 388	12
Oral biology 370	MDB 370	11
Applied medicine 370	TGG 370	11
Applied physiology 370	FSG 370	12
Clinical pharmacotherapy 370	FAR 370	8
Generic procedural skills 370	GPS 370	5
Comprehensive patient management 370	TBW 370	10
Odontology 370	ODO 370	42
Periodontology 370	PDL 370	8
Orthodontics 370	ORD 370	6
Orofacial surgery 370	OFC 370	12
Prosthodontics 370	PRD 370	41
Diagnostic imaging 370	RAD 370	8
	Total credits:	**186**

Fourth year

Module	**Module code**	**Credits**
Comprehensive patient management 470	TBW 470	12
Odontology 470	ODO 470	71
Maxillofacial pathology 470	MFP 470	11
Periodontology 470	PDL 470	8
Orthodontics 470	ORD 470	21
Orofacial surgery 470	OFC 470	41
Prosthodontics 470	PRD 470	26
Community as patient 470	GAP 470	4
Anaesthesiology 470	TMZ 470	16
Diagnostic imaging 470	RAD 470	13
	Total credits:	**223**

Fifth year

Module	**Module code**	**Credits**
Comprehensive patient management 570	TBW 570	14
Odontology 570	ODO 570	57
Maxillofacial pathology 570	MFP 570	10
Periodontology 570	PDL 570	16
Orthodontics 570	ORD 570	22
Orofacial surgery 570	OFC 570	42
Prosthodontics 570	PRD 570	31
Community as patient 570	GAP 570	6
Diagnostic imaging 570	RAD 570	8
	Total credits:	**206**

(h) **First year of study**

(i) **Curriculum**

First semester

Examination modules

CMY 151	Chemistry 151*
FIL 155	Science and world views 155
MGW 112	People and their environment 112
MLB 111	Molecular and cell biology 111*
PHY 131	General physics 131*
MTL 180	Medical terminology 180

*Refer to par. 1.2 of GENERAL ACADEMIC INFORMATION in this publication.

IMPORTANT:

- Apart from the examination modules mentioned above, the following compulsory **academic information management module** must also be passed during the first semester of the first year of study: **AIM 101**.
- Consult also par 5 of GENERAL ACADEMIC INFORMATION in this publication.
- All new first-year students at the University must write an **academic literacy test.** On the grounds of the outcome of this test, students will either be exempted from the following **academic literacy modules**, or if they have failed the test mentioned above, will be required to pass in the relevant modules: ELH 111 and 112
- The first semester of the year module PHY 181 is the same as PHY 131 mentioned above.

(ii) **Failed candidates/Admission to the second semester of BChD I**

(aa) Selected first-year students, who have passed a sufficient number of prescribed first-semester modules at 100 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second semester of the first year of study. During the second semester, the students will be admitted to an examination on an anti-semester basis in the first-semester module(s) still outstanding, if this can be accommodated in the timetable.

(bb) In the School of Dentistry, a student may not repeat more semester modules than the equivalent of eight lectures per week on an anti-semester basis in the second semester.

Second semester

Modules

SEP 110	Sepedi 110

Promotion modules

GNK 188	Anatomy 188
IDE 170	Integrated dentistry 170
POH 170	Public oral health 170

(i) **Admission to the second year of study**

A student must pass all the modules of the first year of study for admission to the second year of study.

(j) **Second year of study**

(i) **Curriculum**

First semester

Modules

ZUL 110	IsiZulu 110
AFR 111	Afrikaans 111

GPS 280 Generic procedural skills 280
Examination modules
GNK 289 Anatomy 289
Promotion modules
FSG 270 Physiology 270
MDB 270 Oral biology 270
IDE 270 Integrated dentistry 270
POH 270 Public oral health 270
Second semester
Modules
GNK 286 Basic emergency care 286
Examination modules
FSG 270 Physiology 270
MDB 270 Oral biology 270
Promotion modules
IDE 270 Integrated dentistry 270
POH 270 Public oral health 270
ODO 270 Odontology 270
PRD 270 Prosthodontics 270

(ii) **Failed candidates**
A student, who has failed a year of study for the second time before completing BChD II, is excluded from the programme and will again be subjected to selection with a view to readmission to the second year of study. Also consult Reg. D.1 (c) concerning students who fail some modules of a year (and therefore the year of study).

(k) **Admission to the third year of study**
A student must pass all the modules of the second year of study for admission to the third year of study.

(l) **Third year of study**

(i) **Curriculum**
Examination modules
TGG 370 Applied medicine 370
FAR 370 Clinical pharmacotherapy 370
ANP 370 Anatomical pathology 370
GOM 370 General and oral microbiology 370
Attendance module
GPS 370 Generic procedural skills 370
Promotion modules
TBW 370 Comprehensive patient management 370
ODO 370 Odontology 370
PDL 370 Periodontology 370
ORD 370 Orthodontics 370
OFC 370 Orofacial surgery 370
PRD 370 Prosthodontics 370
RAD 370 Diagnostic Imaging 370
POH 370 Public oral health 370

(ii) **Supplementary examinations**
Concerning the examination modules:
As set out in GENERAL REGULATIONS G.12.4.1.

(iii) **Supplementary examinations in promotion modules**
Consult Reg. D.1(e).

(m) **Admission to the fourth year of study**
A student must pass all the modules of the third year of study for admission to the fourth year of study.

(n) **Fourth year of study**

(i) **Curriculum**

Examination module

TMZ 470 Anaesthesiology 470
RAD 470 Diagnostic imaging 470
POH 470 Public oral health 470

Promotion modules

ODO 470 Odontology 470
PDL 470 Periodontology 470
ORD 470 Orthodontics 470
OFC 470 Orofacial surgery 470
PRD 470 Prosthodontics 470
MFP 470 Maxillofacial pathology 470
TBW 470 Comprehensive patient management 470

(ii) **Supplementary examinations**
A student who obtains between 40-49% in examination and promotion modules, is admitted to supplementary examinations. Should he or she fail this supplementary examination/promotion test, the fourth year has to be repeated. When a year of study has to be repeated, the student retains credit for the examination modules passed. Consult Reg. D.1 (e) regarding the certificate of satisfactory preparation and progress, which must be obtained in the year of repetition in all promotion modules already passed, as well as the extent of involvement of students regarding promotion modules already passed, in order to maintain a specific level of clinical skills.

(o) **Admission to fifth year of study**
A student must pass all the modules of the fourth year of study for admission to the fifth year of study.

(p) **Fifth year of study**

(i) **Curriculum**

Attendance module

RAD 570 Diagnostic imaging 570
POH 570 Public oral health 570

Examination modules

ODO 570 Odontology 570
PDL 570 Periodontology 570
ORD 570 Orthodontics 570
OFC 570 Orofacial surgery 570
PRD 570 Prosthodontics 570
MFP 570 Maxillofacial pathology 570
TBW 570 Comprehensive patient management 570

(ii) **Examinations**

(aa) A student who has failed the clinical part of any module in the final examination, will be required to repeat that module. The period which must elapse before the student may again sit an examination, is determined by the Dean, on the recommendation of the examination moderating committee. A student who repeats a module, must obtain

certificates of satisfactory preparation in all the other modules that he/she has passed.

(bb) A student who has failed the theoretical part of any module or any subsection thereof in the final examination, will be admitted to a supplementary examination in that part of the module. A student who fails the supplementary examination will be required to repeat the module and may sit an examination at the end of the ensuing semester, but must obtain certificates of satisfactory preparation in all the other modules that he/she has passed.

(q) **Pass with distinction**
The degree is conferred with distinction on a student who has obtained at least 65% in all the examination modules of the final year of study, with an average of at least 75% for all the modules.

D.1A Bachelor of Oral Hygiene [BOH] (Code 11130011)

General Regulations G.1 to G.15 are applicable to bachelor's degrees.

(a) **Admission requirements**
A valid National Senior Certificate (NSC) with admission for degree purposes.

Admission Point Score (APS)
Total of 25 rating points.
Candidates are selected for admission to this programme and application must be made in the prescribed manner.

To be able to gain access to the Oral Hygiene degree programme, prospective students require the appropriate combinations of recognised NSC subjects as well as certain levels of achievement in the following minimum subjects:
- English (Home language level or First additional language level): rating 4 (50-59%)
- Mathematics: rating 4 (50-59%)
- Physical Science: rating 4 (50-59%)
- Life Orientation (excluded when calculating the APS).

(b) **Nature and duration of programme**
Three years of full-time study.

(c) **Curriculum**

(i) **First year of study**

Module	Module code	Credits
Examination modules		
Academic competency in oral health 171	ACO 171	12
Anatomy 171	ANA 171	8
Pharmacology 171	FAR 171	5
Physiology 171	FLG 171	8
Microbiology and immunology 171	GMB 171	8
Oral biology 171	MDB 171	8

Promotion modules		
Odontology 171	ODO 171	12
Orthodontics 171	ORD 171	9
Periodontology 171	PDL 171	12
Comprehensive patient management 171	TBW 171	2
Preventive oral health 171	VKM 171	15
Academic information management 101	AIM 101	6
Academic English for Health Sciences 121,122	ELH 121, 122	12
Attendance module		
First aid 171	NHS 171	5
Total credits:		**124**

(ii) **Second year of study** (credits of modules indicated between brackets)

Examination modules

ODO 271 Odontology 271 (7)
OFC 271 Orofacial surgery 271 (11)
PDL 271 Periodontology 271 (11)
ORD 271 Orthodontics 271 (6)
GAP 271 Community as patient 271 (14)

Promotion modules

VKM 271 Preventive oral health 271 (58)
TBW 271 Comprehensive patient management 271 (3)
RAD 271 Radiography 271 (20)

(iii) **Third year of study** (credits of modules indicated between brackets)

Examination modules

RAD 371 Radiography 371 (20)
MFP 371 Maxillofacial pathology 371 (8)
VKM 371 Preventive oral health 371 (36)
PSB 371 Patients with special needs 371 (12)
RCH 371 Research 371 (5)
TBW 371 Comprehensive patient management 371 (3)
COU 371 Counselling 371 (5)

Attendance modules

GAP 371 Community as patient 371 (13)
OFC 371 Orofacial surgery 371 (6)

Elective modules (one of the following):

ORD 372 Orthodontics 372 (22)
PDL 372 Periodontology 372 (22)
POH 371 Public oral health 371 (22)

(d) **Admission to the second year of study**

(i) To be admitted to the second year of study, a student must pass in all the first-year modules.

(ii) Students who are repeating the first year of study, retain credit for examination modules passed, unless otherwise stipulated, but have to obtain a certificate of satisfactory preparation and progress in all the promotion modules. In order to comply with the requirements mentioned above, and to maintain a specific level of clinical skills, the extent of involvement of students in promotion modules passed, will be contracted by the module chairperson with the student(s) concerned, at the commencement of the academic year.

(iii) A pass mark of at least 70% is required in the promotion module VKM 171 Preventive oral health 171.

(e) **Admission to the third year of study**

(i) To be admitted to the third year of study, a student must pass in all the second-year modules.

(ii) Students who are repeating the second year of study, retain credit for examination modules passed, unless otherwise stipulated, but have to obtain a certificate of satisfactory preparation and progress in all the promotion modules. In order to comply with the requirements mentioned above, and to maintain a specific level of clinical skills, the extent of involvement of students in promotion modules passed, will be contracted by the module chairperson with the student(s) concerned, at the commencement of the academic year.

(iii) A pass mark of at least 70% is required in the promotion module VKM 271 Preventive oral health 271.

(f) **Examinations of the first, second and third years of study**

(i) A subminimum of 50% in the examination is required in respect of the examination modules, with a final mark of at least 50% to pass.

(ii) A pass mark of at least 70% is required in Preventive oral health.

(iii) A student who fails the clinical part of one or more of the modules of the third year must repeat those modules in the ensuing semester, with an examination at the end of the semester.

The Dean on the recommendation of the examination moderating committee, will determine the time that must elapse before the student may again report for examination. Students, who are repeating the year of study, retain credit for modules passed, unless determined otherwise, but a certificate of satisfactory preparation and progress must be obtained in all modules passed.

(iv) A student who has failed the theoretical part of any module in the third year, final examination, will be admitted to a supplementary examination in that part of the module. A student who fails the supplementary examination may, subject to other faculty regulations, sit an examination at the end of the ensuing semester, but must obtain certificates of satisfactory preparation in all the other modules that he/she has passed.

(v) In order to comply with the requirements in (iii) above, and to maintain a specific level of clinical skills, the extent of students' involvement in modules passed, will be contracted with the students concerned, by the module chairperson, at the beginning of the year.

(vi) The requirement as stipulated in par.(f.)(i) above, will apply to students who, after repeating a semester, again fail some of the modules.

(g) **Academic exclusion**

(i) A student following the Oral Hygiene programme will only be allowed two opportunities to repeat a year of study. Refer to General Regulation G.3.2(b).

(ii) A student who does not comply with the abovementioned requirements but nevertheless wishes to be admitted to the School, may request the Dean/Chairperson in writing to consider his or her application for readmission in accordance with the prescribed procedure.

(iii) A student who fails the first year of study must apply for readmission to the programme.

(h) **Degree with distinction**

The degree is conferred with distinction on a student who obtains an average of at

least 75% in the examination modules of the third year of study, and at least 65% in all the examination modules of the final year of study.

II MASTER'S DEGREES

D.2 Master of Science Dentistry [MScDent]

Also consult General Regulations G.30 to G.44.

(a) **Option 1: Main field of study: General**
(Field of study code 11252001):

(i) **Admission requirements**
Subject to the stipulations of General Regulations G.9 and G.30, the BChD degree or an equivalent qualification is required, as well as the Postgraduate Diploma in Dentistry [PGDipDent]. The candidate may be exempted from the latter qualification at the discretion of the head of the department concerned and with the Dean's approval.
Candidates in possession of an applicable bachelor honours degree or equivalent qualification may be admitted to study in certain specialised basic dental sciences at the discretion of the head of department concerned and according to General Regulation G.30.2, and with the Dean's approval.

(ii) **Duration**
At least four semesters of part-time study.

(iii) **Curriculum**

(aa) **Attendance course** TNM 800 Applied research methodology 800

(bb) **An examination (ODO 800) and dissertation (ODO 890)**

- An examination on an approved programme of advanced study and tuition in an applicable area of Dentistry.
- A dissertation related to the major subject. In the final evaluation, the dissertation and the examination mentioned in (bb) will carry equal weight. A minimum pass mark of 50% is required for the dissertation, with a minimum of 50% as pass mark in the examination.

(b) **Option 2: Main field of study: Oral Surgery**
(Field of study code 11252004)

(i) **Admission requirements**
Subject to the stipulations of General Regulations G.9 and G.30, the BChD degree is required, as well as the Postgraduate Diploma in Dentistry [PGDipDent] with the main field of study Oral Surgery (Oral Surgery with a minimum pass mark of 65%).

(ii) **Duration**
A minimum of four semesters part-time study. Studies must be completed within six semesters and Part I and II of the study programme must extend over a maximum of four semesters.

(iii) **Curriculum**
Part I
Basic subjects (prerequisite for Part II):

CBA 800	Anatomy and principles of surgery 800
CBR 800	Maxillofacial radiology and principles of surgery 800
ANA 870	Anatomy 870
FSG 806	Physiology 806

FAR 809 Pharmacology 809
(A minimum of any two of the above basic subjects is required. These basic subjects may be passed at the University of Pretoria or the College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa or may be part of the PGDipDent in Oral Surgery, or promoted/passed with a minimum pass mark of 65% from another tertiary institution (see also General Regulation G.10.3(b)).
Attendance course:
TNM 800 Applied research methodology 800

Part II
KGM 891 Clinical training 891
Maxillofacial and oral surgery: 240 hours of clinical or theme-related practical training.
Students who hold the Postgraduate Diploma in Dentistry [PGDipDent] with Oral Surgery as the main field of study, may apply in writing for credit for the basic subject, clinical training and the written final examination in Oral Surgery, provided that a minimum of 65% has been obtained in the basic subject at the University of Pretoria (see also General Regulation G.10.3 (b)).

Part III
MCH 800 Oral surgery 800
Part III comprises (i) an examination in Maxillofacial and Oral Surgery; (ii) five written seminars on a specific topic in Maxillofacial and Oral Surgery; and (iii) a mini-dissertation related to the topic mentioned in (ii) above.

(c) **Option 3: Main field of study: Maxillofacial and Oral Radiology (Field of study code: 11252005)**

(i) **Admission requirements**
Subject to the stipulations of General Regulations G.9 and G.30, the BChD degree is required, as well as the Postgraduate Diploma in Dentistry [PGDipDent] in the main field of study (RAD) Radiography 700.

(ii) **Duration**
As for Option 1.

(iii) **Curriculum**
Attendance course:
TNM 800 Applied research methodology 800
Major subject:
MPG 806 Maxillofacial and oral radiology 806
Basic subject:
RAD 801 Radiography 801
A dissertation (RAD 890) related to the major subject.

(d) **Examination and supplementary examination**
The stipulations of the General Regulations apply to all the abovementioned options.

(e) **Degree with distinction**
Regarding Option 1: A student must obtain a minimum of 75% in both the examination and the dissertation.
Regarding Option 2: A student must obtain a minimum of 65% in Parts I and II, and a minimum of 75% in each of the subdivisions of Part III of the study programme.

Regarding Option 3: A student must obtain a minimum of 65% in the basic subject and at least 75% in the major subject of the study programme.

D.3 Master of Dentistry [MChD]

Also consult General Regulations G.30 to G.44.

(a) The MChD degree is conferred in the following fields of study:
Maxillofacial and Oral Surgery
Orthodontics
Oral Pathology
Periodontics and Oral Medicine
Prosthodontics
Community Dentistry

(b) **Admission requirements**

(i) Each candidate for admission to the study for the MChD degree programme must:

(aa) either hold the BChD degree of the University of Pretoria or an equivalent qualification, or be admitted to master's degree studies in terms of the stipulations of General Regulations G.1.3 and G.62;

(bb) be registered as a dentist with the Health Professions Council of South Africa.

(ii) For the MChD degree (endorsement Maxillofacial Surgery – Medical or Dental (Codes 11250091 and 11250011), a candidate

(aa) is required, subject to the stipulations of General Regulations G.1.3 and G.62, to have obtained the BChD and/or MBChB degree or equivalent qualification at least one year previously, passed the Advanced Trauma Life Support Course (maximum three attempts), as well as the basic subjects Anatomy 870, Physiology 806 and Pharmacology 809 and the PGDipDent (Oral Surgery), with a minimum pass mark of 65% in the major subject. Students who hold the Postgraduate Diploma in Dentistry [PGDipDent(Oral Surgery)] and/or the Master of Science Dentistry [MScDent] with Oral Surgery as the main field of study, may apply in writing for credit for the basic subject(s) (see also General Regulation G.10.3(b)).

(bb) is required to be registered as a dentist and/or physician with the Health Professions Council of South Africa.

(c) **Duration**

In order to qualify for the degree, a candidate must, for a period of four to eight years, depending on the specific requirements for a particular field of study, have held a full-time training position/registrarship successfully, at a training institution approved by the University. In the case of Maxillofacial and Oral Surgery, a candidate must hold a full-time registrarship for a minimum of four years (for a candidate with both a BChD degree and a MBChB degree), a minimum of seven years (for a candidate with a BChD degree), a minimum of six years years (for a candidate with a MBChB degree), or a minimum of five years (for MChD (ChirMaxFac-Dent)).

(d) **CURRICULA**

(1.) **Maxillofacial and Oral Surgery**

(1.1) **Maxillofacial and Oral Surgery (endorsement ChirMaxFac-Med)**

Total number of credits: 1 680

(aa) **For students who hold both the BChD and the MBChB degrees (Code 11250091)**

Duration: Four years of full-time study.

First year of study		
Major subject:	KGM 802	Maxillofacial and oral surgery 802
Basic subjects:	(Prerequisites for first year of study include Anatomy, Physiology and Pharmacology.)	
Attendance course:	TNM 800	Applied research methodology 800
Subsidiary subjects:	MPG 801	Oral pathology 801
	BVC 806	Principles of surgery 806
Second year of study		
Major subject:	KGM 802	Maxillofacial and oral surgery 802
Examination subject:	BVC 806	Principles of surgery 806
Third year of study		
Major subject:	KGM 802	Maxillofacial and oral surgery 802
Fourth year of study		
Examination subject:	KGM 802	Maxillofacial and oral surgery 802

(bb) **For students who hold the MBChB degree (Code 11250092)**

Duration: A minimum of six years of full-time study

First year of study
As in (aa) above, except for MPG 801 Oral pathology.

Second year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802
The student must also register for the BChD degree and apply for registration as a student in Dentistry with the Health Professions Council of South Africa.

BChD III (Code 11130001)
As for BChD III with exemption from certain medical subjects.
Examination subject: BVC 806 Principles of surgery 806

Third year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

BChD IV (Code 11130001)
As for BChD IV.

Fourth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

BChD V (Code 11130001)
As for BChD V.

Fifth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802
Subsidiary subject: MPG 801 Oral pathology 801

Sixth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

Seventh year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

(cc) **For students who hold the BChD degree (Code 11250093)**

Duration: A minimum of seven years of full-time study.

First year of study
As in (aa) above, except for BVC 806 Principles of surgery.

Second year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802
The student must also register for the MBChB degree and must apply for registration as a student in Medicine with the Health Professions Council of South Africa.

MBChB III (Code 10130001)
As for MBChB III.

Third year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

MBChB IV (Code 10130001)
As for MBChB IV.

Fourth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

MBChB V (Code 10130001)
As for MBChB V.

Fifth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

MBChB VI (Code 10130001)
As for MBChB VI.

Sixth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802
Subsidiary subject: BVC 806 Principles of surgery 806

Seventh year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

Eighth year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

Ninth year of study (first semester):
Examination subject: KGM 802 Maxillofacial and oral surgery 802

(1.2) **Maxillofacial and Oral Surgery (endorsement ChirMaxFac-Dent) (Code 11250011)**

Total number of credits: 1 680

Duration: Five years of full-time study.

First year of study
As in 1.1 (aa) above.

Second year of study
Major subject: KGM 802 Maxillofacial and oral surgery 802
Examination subject: BVC 806 Principles of surgery 806

Third and fourth years of study
Major subject: KGM 802 Maxillofacial and oral surgery 802

Fifth year of study (Research)
Examination subject: KGM 802 Maxillofacial and oral surgery 802

General information

1. The content of the basic subjects, subsidiary subjects and attendance courses will be determined by the particular head of department in consultation with the head of the department at Dentistry or Medicine.
2. General information concerning content and extent of the basic and subsidiary subjects is available at the department in question.
3. Students have to ensure that certificates of satisfactory preparation are acquired in all the attendance courses.

1. Maxillofacial and Oral Surgery

Major subject:
Maxillofacial and oral surgery: Experience is acquired through practical and clinical training and supplemented by seminars, discussions, papers and research. Diagnosis, planning, surgical and secondary treatment of diseases, injuries and defects of the human mouth, jaws, face and related structures.
Subsidiary (intermediary) subject:
Principles of surgery: Instruction mainly by the Departments of Surgery (and its divisions), Neurosurgery, Otorhinolaryngology, Ophthalmology and Family Medicine. This training takes place over nine months.
Instruction in the subsidiary subject:
Principles of surgery:

Endorsement ChirMaxFac-Med BVC 806
General Surgery (including Paediatric Surgery): 2 months
Intensive Care: 2 months
Neurosurgery: 2 months
Ophthalmology: 1 month
Otorhinolaryngology: 1 month
Plastic Surgery: 1 month

Applied Oral Pathology: 3 months

Endorsement ChirMaxFac-Dent BVC 807
Distress Unit (Family Medicine): 1 month
General Surgery (including Paediatric Surgery): 1 month
Intensive Care: 2 months
Neurosurgery: 2 months
Ophthalmology: 1 month
Otorhinolaryngology: 1 month
Plastic Surgery: 1 month

Applied Oral Pathology: 3 months

Applied Oral Pathology: Instruction by the Department of Oral Pathology and Oral Biology will be over a period equivalent to three months.

General information concerning the endorsements ChirMaxFac-Med and ChirMaxFac-Dent

1. A candidate with a BChD or BDS degree should preferably enrol for the MChD(ChirMaxFac-Med) programme.
2. Permission is granted to a student for (ChirMaxFac-Med) to register simultaneously for the postgraduate and undergraduate programmes as applicable. At the end of the programme the student will have complied with all the requirements for the BChD, MBChB and MChD degrees.
3. The content of the basic and subsidiary (intermediary) subjects and attendance courses will be determined by the particular head of department, in consultation with the Department of Maxillofacial and Oral Surgery.
4. Basic and subsidiary (intermediary) subjects: Acknowledgement of basic and/or subsidiary (intermediary) subjects may be granted if all the particular subjects have already been passed at an approved institution such as the Colleges of South Africa (College of Maxillofacial and Oral Surgery) as recommended by the Head of department.
5. Pharmacology as a basic subject has to be passed as a prerequisite before the first year of study, should all other basic subjects be acknowledged by an approved institution.
6. Instruction in the major subject extends over a minimum period of three years, of which the first year mainly concentrates on minor oral surgery.
7. A student for the endorsement ChirMaxFac-Med can only fulfil his or her clinical obligations in Principles of Surgery after he or she has complied with the requirements for the MBChB degree, as well as having completed the Certificate for Advanced Trauma Life Support (ATLS) (before commencing the registrarship).
8. The instruction in the last two years in the major subject takes place only after having successfully completed the subsidiary subjects.
9. The first year of registrarship is acknowledged as an additional year of experience for Medicine and Dentistry if the training in Maxillofacial and Oral Surgery is discontinued. However, a student who discontinues one of the subjects must resign from the registrarship immediately.

10. The basic subjects for Maxillofacial and Oral Surgery (endorsements ChirMaxFax-Med and ChirMaxFac-Dent) are identical.
11. The requirements for the major subject are: Submission of a mini-dissertation (endorsement ChirMaxFac-Med) and a dissertation (endorsement ChirMaxFac-Dent), a letter from an appropriate journal editor, acknowledging receipt of the draft manuscript, surgical portfolio (logbook) with minimum cases treated per surgical section, a prescribed summary of case reports, any publications, research abstracts, examination in a surgical procedure and examination in patient short cases conducted under examination conditions.
12. A student may only proceed with the final FC MFOS (SA) examination after fulfilling the requirements for the MChD(ChirMaxFac-Med or -Dent) as stipulated in 11. above.
13. The MChD(ChirMaxFac-Med or -Dent) may only be awarded after successfully passing the final examination for the FC MFOS (SA).
14. Costs or fees for any examination(s) and registration at the Colleges of Medicine of South Africa have to be met by the student.

(2) Orthodontics (Code 11250021)

Total number of credits: 1 248

Major subject:	ORD 803	Orthodontics 803
Basic subjects:	ANA 871	Anatomy 871
	FSG 806	Physiology 806
Subsidiary subjects:	MPG 801	Oral pathology 801
Attendance courses:	RAD 800	Radiography 800
	KGM 800	Maxillofacial and oral surgery 800
	PRD 801	Prosthodontics 801
	SKT 800	Speech therapy 800
	MGN 802	Human genetics 802
	TNM 800	Applied research methodology 800
	PMG 801	Periodontics and oral medicine 801
	PDD 801	Pedodontics 801

Duration: Four years of full-time study.

(3) Oral Pathology (Code 11250031)

Total number of credits: 1 344

Major subject:	MPG 802	Oral pathology 802
Basic subjects:	ANP 808	Anatomical pathology 808
	MPX 800	Molecular pathology 800
Attendance course:	TNM 800	Applied research methodology 800

Duration: Five years of full-time study.

(4) Periodontics and Oral Medicine (Code 11250041)

Total number of credits: 1 369

Major subject:	PMG 802	Periodontics and oral medicine 802

Basic subjects:	ANA 873	Anatomy 873
	FSG 806	Physiology 806
	APA 808	General pathology 808
	MDB 800	Oral biology 800
Subsidiary subjects:	MPG 803	Oral pathology 803
	FAR 870	Pharmacology 870
Attendance courses:	ORD 800	Orthodontics 800
	TNM 800	Applied research methodology 800
	PRD 802	Prosthodontics 802

Duration: Four years of full-time study.

(5) **Prosthodontics (Code 11250081)**

Total number of credits: 1 344

Major subject:	PRD 803	Prosthodontics 803
Basic subjects:	ANA 874	Anatomy 874
	FSG 806	Physiology 806
	MDB 800	Oral biology 800
Subsidiary subjects:	MPG 804	Oral pathology 804
	PMG 803	Periodontics and oral medicine 803
Attendance courses:	KGM 803	Maxillofacial and oral surgery 803
	ORD 800	Orthodontics 800
	RAD 870	Radiography 870
	KMP 871	Communication pathology 871
	TNM 800	Applied research methodology 800

Duration: Four years of full-time study.

(6) **Community Dentistry (Code 11250071)**

Total number of credits: 1 056

Major subject:	GTH 800	Community dentistry 800
Basic subjects:	TMP 801	Applied oral pathology 801
	HME 870	Introduction to health measurement 870
	BOS 870	Biostatistics 870

Additionally, the Diploma in Health Systems Management must be attended and passed on a capita selecta basis, or any other management course as determined by the head of department and approved by the dean.

Practical training
Practical training is provided at recognised institutions

Duration: Four years of full-time study.

(e) **Examinations** (also consult General Reg. G.40)

(i) **Examinations in the basic and subsidiary subjects (with the exception of KGM 803):**

(aa) A student must pass these subjects prior to admission to the examination in the major subject. A minimum of at least 50% is required to pass.

(bb) Examinations in the basic and subsidiary subjects must be passed before the end of the third year of study, or at a time as determined by the head of department.

(ii) **Examinations in the major subject**
Admission to the examination in the major subject is determined by the head of department.

(iii) If a student fails one or more of the basic subjects, subsidiary subjects or the major subject, the head of department may recommend to the examination moderating meeting, that he or she be admitted to a supplementary examination. Supplementary examinations may only take place after a minimum period of six months has elapsed since the examination in which the student failed.
NB:
(aa) In view of the fact that a postgraduate student may repeat an examination in any subject only once, a student who fails a supplementary examination will have to discontinue the programme. In this event, a student who has been holding a registrarship, will have to vacate the position as soon as possible after one calendar month's notice to the University of Pretoria and/or other recognised training institution, where applicable.
(bb) If a student is admitted to a supplementary examination in the major subject, the head of department will determine whether he/she has to vacate the registrarship at the end of the training period, or immediately after the supplementary examination.

(iv) **Subminimum**
In order to pass in the major subject a student must obtain a subminimum of 50% in all the sections of the examination, with a final mark of at least 50%.

(v) The stipulations of General Regulation G.10.4 are applicable with regard to attendance courses.
Please note: The attendance courses in Prosthodontics consist of two parts, i.e. Prosthetics and Restorative dentistry.

(vi) In addition to the stipulations already mentioned, a dissertation on a topic related to the major subject must also be submitted. In order to pass in the final examination, a pass mark must also be obtained for the dissertation.

(vii) An MChD student, who has obtained at least 75% with the first attempt in both his major subject and the dissertation, will receive the degree with distinction.

1. **MChD degree (endorsement ChirMaxFac-Med and ChirMaxFac-Dent)**

(i) **Examinations in the basic subjects**
A student must pass all the basic subjects (Anatomy [with Embryology], Physiology and Pharmacology [University of Pretoria or College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa] before he or she may be admitted to the first year of study. A minimum pass mark of at least 50% is required in all examinations for the University of Pretoria and College of Maxillofacial and Oral Surgery and a minimum pass mark of 65% from another tertiary institution (see also General Regulation G.10.3(b)).

(ii) **Examinations in the subsidiary (intermediary) subjects**
(The minimum pass mark is 50%.)
(aa) For the endorsement Maxillofacial Surgery-Medicus, a student has to

pass in Principles of surgery in the year of study as indicated, before he or she may continue with the programme.

(bb) A student has to pass in Applied oral pathology at least two and a half years prior to the examination in his or her major subject.

These subsidiary subjects may be passed at the University of Pretoria or the College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa.

(iii) If a student fails any of the subsidiary subjects Principles of surgery or Applied oral pathology, the head of department may recommend that he or she be admitted to a supplementary examination (re-examination).

(iv) **Examination and evaluation in the major subject**

(aa) If a student fails his or her major subject, the student has to reapply for admission to the final examination of the College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa.

(bb) In the light of the fact that a postgraduate student may repeat an examination in any subject only once, a student who fails a supplementary examination, will have to discontinue the programme.

(cc) If a student has been admitted to a supplementary examination in the major subject, the head of department will determine whether he or she should vacate the registrarship at the end of the training period. The student has to vacate the registrarship immediately after the first supplementary examination has been completed.

(dd) **Subminimum:** A student must obtain a subminimum of 60% in the clinical section (operation and short cases) of the examination, with a subminimum of 50% in all the other sections for the master's degree. He or she must also comply with the requirements regarding the number of operation procedures performed in each section, as required by the head of department. A final mark of at least 50% is required in order to pass in a subject.

(ee) In addition to the stipulations already mentioned, the student must submit and pass a mini-dissertation (endorsement Maxillofacial Surgery-Med) or a dissertation (endorsement Maxillofacial Surgery-Dent), on an approved topic related to the major subject and submit a publication as required (see also General Regulation G.43). A complete record of operations (as a logbook) must also be submitted.

(ff) **Pass with distinction:** A student who obtains at least 60% in the basic and the subsidiary subjects, and a final mark of at least 75% (with the first attempt) in the major subject, including the final examination of the College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa when applicable, qualifies to obtain the degree with distinction.

(v) The master's degree can only be conferred after the National Professional Examination [FCMFOS(SA)] has been passed (as this master's degree and the Fellowship may be used as an interwoven final equivalence examination).

2. **MChD degree (Oral Pathology)**

(i) **Examinations in the basic subjects**

A student must pass the basic subject Molecular pathology (MPX 800) at the University of Pretoria. The basic subject, Anatomical pathology (ANP 808) will be examined by the College of Pathologists as their Part I examination.

(ii) **Examination and evaluation in the major subject**

(aa) The final exit examination of the major subject (MPG 802) will be

administered by the College of Pathologists. Only candidates who have met all the requirements for the MChD degree in Oral Pathology except for the major subject (final examination), i.e. passed all the prerequisite subjects; completed all applicable training as prescribed (continuous evaluation of the candidate in an approved registrar post by the Head of Department of the candidate); and completed the required research component for the degree, will be allowed to write the College examination (exit examination) after which they will obtain both the FCP and the MChD as specialist qualifications.

(bb) The student must submit and pass a dissertation on an approved topic related to the major subject and submit a manuscript for publication as required.

(cc) A student who obtains a final mark of at least 75% (with the first attempt) in the major subject qualifies to obtain the degree with distinction.

(dd) Costs or fees for any examination(s) and registration at the Colleges of Medicine of South Africa have to be met by the student.

(f) **Exemption**

Exemption by virtue of comparable training and/or experience in terms of the requirements of School Regulation D.3(c) and (d), may be granted by the Dean, on the recommendation of the Head of Department, with the proviso that exemption from the examination and evaluation in the major subject may not be granted.

Please note: The regulations of the Health Professions Council of South Africa, as published in the Government Gazette No. 4631 of 11 January 1991 – Notice No. R.40 (as amended), will be used as a criterion in determining the period of exemption.

III DOCTORATES

D.4 Doctor of Philosophy [PhD] (11261001)

Consult General Regulations G.45 to G.55.

(a) **Admission requirement**

Subject to the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to doctoral study, if he or she holds a master's degree. If Maxillofacial and Oral Surgery is chosen as main field of study, a minimum pass mark of 65% in either MScDent, or MChD (Maxillofacial and Oral Surgery), or an equivalent qualification will be required.

(b) **Curriculum**

Total number of credits: 270

The degree PhD is conferred by virtue of a thesis, with the proviso that the Faculty Board, on the recommendation of the examination panel, may require an oral examination which deals with the topic of the thesis.

The module codes to be used for the different academic departments are the following:

GTH 990 Community dentistry 990

ODO 990 Odontology 990
KGM 990 Maxillofacial and oral surgery 990
MPG 990 Oral pathology and oral medicine 990
PRD 990 Prosthodontics 990
ORD 990 Orthodontics 990
TBW 990 Dental Management Sciences 990

Note: Module code THW 990 Dental Sciences 990 is to be used for PhD projects that fall outside of the boundaries of departments.

D.5 Doctor of Science [DSc] (Code 10262000)

The DSc degree is conferred on the basis of publications (consult General Regulation G.56).

(i) The collective publications submitted must deal with a central theme.
(ii) The candidate must already hold a PhD degree or an equivalent qualification.

IV DIPLOMAS

D.6 University Diploma in Oral Hygiene [UnivDipOH] (Code 11120012)

Note: This Diploma has been replaced by the Bachelor of Oral Hygiene degree.

D.7 Postgraduate Diploma in Dentistry [PGDipDent]

(a) **Admission requirements**

Subject to the stipulations of General Regulations G.1.3 and G.62, the BChD degree or an equivalent qualification is required.

For the main field of study Oral Surgery, a candidate must be in possession of the BChD degree or an equivalent qualification with at least 65% in the final examination in Orofacial surgery or a subject deemed equivalent by the head of department.

(b) **Duration**

At least two semesters with 120 contact hours. The contact time in the major field of study is determined by the head of the department concerned and approved by the Dean. It includes systematic tuition as well as clinical/practical assignments.

(c) **Curriculum**

(i)

Main field of study – one of the following:		Code
MPG 700	Oral Pathology 700	11220003
END 700	Endodontics 700	11220004
ORD 700	Orthodontics 700	11220005
FOT 700	Forensic Odontology 700	11220006
PDD 700	Pedodontics 700	11220007
MCH 700	Oral Surgery 700	11220008
PDL 700	Periodontology 700	11220009
HTH 700	Restorative Dentistry 700	11220010
PTK 700	Prosthetics 700	11220012
MGK 700	Oral Medicine 700	11220013
MMB 700	Oral Microbiology 700	11220015

VTH 700	Preventive Dentistry 700	11220016
GTH 700	Community Dentistry 700	11220017
PRS 700	Practice Management 700	11220018
THM 700	Dental Materials 700	11220021
ADX 700	Aesthetic Dentistry 700	11220022
PDI 700	Implantology 700	11220023
PRD 701	Prosthodontics 701	11220024
RAD 700	Radiography 700	11220025

or

another module as determined by the head of the department concerned and approved by the Dean.

(ii) **Basic subject**

MDB 710	Applied oral biology 710
CBA 710	Anatomy and principles of surgery 710
ANA 770	Anatomy 770
FSG 706	Physiology 706
FAR 709	Pharmacology 709
THM 710	Dental materials 710
RAD 710	Introductory radiography 710
RLE 710	Ethics and jurisprudence 710

Note:

Oral Surgery: a prerequisite (a minimum of one basic subject is required – these basic subjects may be passed at the University of Pretoria or at the College of Maxillofacial and Oral Surgery of the Colleges of Medicine of South Africa) or any other module as determined by the department in question and approved by the Dean.

(d) **Examinations**

The examination in the basic subject and the main field of study may take place every semester. However, only one subject may be written per semester. In order to be admitted to the examination in the main field of study the student must pass the basic subject. A final mark of at least 50% is required to pass.

Subject to exceptions approved by the Dean, on the recommendation of the head of department, a student may not enter for the postgraduate diploma's examination in the same subject more than twice.

(e) **Pass with distinction**

The diploma is awarded with distinction to students who obtain at least 75% in both the main field of study and the basic subject.

D.8 Advanced University Diploma in Oral Hygiene [AdvUnivDipOH] (Code 11120013)

(a) **Admission requirements**

Candidates must be in possession of a Diploma in Oral Hygiene or in Dental Therapy or an equivalent qualification, and must be registered with the Health Professions Council of South Africa as an oral hygienist or a dental therapist.

(b) **Duration**

At least two semesters. The programme is only offered part-time, with contact time as determined by the head(s) of department concerned.

(c) **Curriculum**

The programme is integrated with and planned around one or more of the dental disciplines or any other topic as agreed on in consultation with the head(s) of department concerned and approved by the Dean.

(i) **Basic subject**

The basic subject is determined by the head of department and approved by the Dean.

(ii) **Major field of study – one of the following:**

GTH 702 Community dentistry 702
PRN 701 Periodontics 701
ORD 701 Orthodontics 701
KGM 701 Maxillofacial and oral surgery 701
PRD 701 Prosthodontics 701
MPG 702 Oral pathology 702
PRS 701 Practice management 701

or

any other module as determined by the head of department and approved by the Dean.

(d) **Examinations**

(i) A year mark of at least 50% is required to be admitted to the examination. A subminimum of 50% is required in the examination in all modules, with a final mark of at least 50% to pass. A student who fails one or more module, must repeat such modules and the examinations in the ensuing semester. In modules that were passed, only practical and clinical work will be required.

(ii) The requirements as set out in par. (d)(i) apply to a student who, after repeating a semester, again fails some of the modules.

(e) **Diploma with distinction**

The diploma is awarded with distinction to a student who obtains an average of at least 75% in both the main field of study and the basic subject.

SCHOOL OF HEALTHCARE SCIENCES

1. **Pass requirements**

In accordance with the stipulations of General Regulation G.10(2), no minimum year or semester mark is needed for admission to the examination, and all registered students are admitted to the examination automatically.

The **final mark** for a specific module in Nursing Science, Physiotherapy, Radiography, Occupational Therapy and Human Nutrition (at least 50% is required to pass) is calculated from the examination mark **as well as** the mark compiled from the evaluation of a student during continuous, objective and controlled assessment opportunities during the course of the quarter/semester/year. At least one formal assessment per module is set as the minimum norm, and students will be exposed on a continuous and regular basis to self-directed assignments in order to promote reflective learning.

In the case of **modules with practical components**, students are required to also comply with the applicable attendance requirements with regard to acquiring practical skills before a pass mark can be obtained for the module.

There are **two main examination opportunities** per annum, the **first** and **second examination**. In respect of first-semester modules, the first examination opportunity is in May/June and the second examination opportunity in July. In respect of second-semester modules, the first examination opportunity is in October/ November and the second examination opportunity in November/December of the same year. Where students need to work additional clinical hours to be allowed to do a second examination, the Head of Department will determine the second examination opportunity.
Only two examination opportunities per module are allowed. If a student fails a module at the second examination opportunity, the module must be repeated.
A second examination opportunity in a module is granted to students in the following cases:

- If a student obtains a final mark of less than 50% in the relevant module at the first examination opportunity and thus fails.
- If a student does not obtain the subminimum in the examination, as required for a specific module.
- If a student does not sit the examination in a module at the first examination opportunity due to illness or extraordinary circumstances.

Students intending to sit the second examination due to the reasons mentioned above, must register for the second examination opportunity 24 hours after the results have been made public.

If a student fails a module at the first examination opportunity, the examination mark obtained in the relevant module at the second examination opportunity will be calculated as the final mark. The marks obtained with continuous evaluation during the course of the quarter/semester/year will not be taken into calculation. If the student passes the module at the second examination opportunity, a maximum of 50% is awarded as a pass mark to the module in question.

If a student could not sit the examination in a module at the first examination opportunity due to illness or extraordinary circumstances, the continuous evaluation

mark, together with the examination mark obtained in the module in question at the second examination opportunity, will be calculated as the final mark obtained in the module.

The School of Healthcare Sciences applies Gen.Reg. G.12.6.1, according to which a student requiring a limited number of modules to complete his or her degree, may in terms of faculty regulations, be admitted to a special examination in the modules in question.

2. **Promotion to a subsequent year of study**

- A student must pass in all the prescribed core modules of a specific year of study to be promoted to a subsequent year of study. A student can only be promoted to a subsequent year of study if the student has not failed more than two fundamental modules of seven weeks each per semester or one module of 14 weeks per semester. A non-negotiable prerequisite for admission to the final year of study is pass marks in all the core and fundamental modules of the preceding years of study.

Refer to the Yearbook for fundamental modules in each discipline.

- A pass mark refers to a final mark of at least 50%.

- Modules with practical and clinical training credits cannot be passed unless all the prescribed clinical hours and practical activities have been completed to the satisfaction of the head of department.

- The Chairperson of the examination moderating meeting may, after assessing the student's total profile, grant special approval to be promoted to the next year of study.

- The exception is the Department of Human Nutrition, where the regulations as applicable in the Faculty of Natural and Agricultural Sciences regarding the modules presented by that Faculty, are relevant.

- Modules can only be taken in advance or repeated if it can be accommodated in the existing examination timetable.

- A student who must repeat a year of study may, with the approval of the Chairperson of the examination moderating meeting and the head of department concerned, be allowed to take fundamental modules of the subsequent year, if he/she complies with all the prerequisites for the relevant modules. No adjustment to existing timetables will be allowed. The following fundamental modules are relevant:

- **Department of Nursing Science**: SLK 110, 120; SOH 254; FSG 251,252

- **Department of Physiotherapy**: SOH 254
FSG 251, 252, 261, 262
SLK 210
ANP 210
GMB 252, 253, 254
FAR 381, 382

- **Department of Occupational Therapy**: ZUL 110; SEP 110; SLK 210, 220, FSG 251, 252, 261, 262; ANP 210; RPD 481 GNK 286
- **Department of Human Nutrition**: FLG 211, 212, 221, 222; BCM 251, 252, 261, 262 FAR 381, 382, VDS 322 VDB 321
- **Department of Radiography**: FSG 251, 252, 262; GNK 286; ANP 210.

3. **Examination and pass requirements common to the Anatomy and Physiology modules for BCur, BPhysT, BRad, BOccTher and BDietetics**

3.1 **Passing modules in Anatomy and Physiology**

(i) A **module mark** is calculated from the continuous evaluation opportunities during the course of the presentation of the relevant module. These evaluations will include one or more of the following:
  (aa) Evaluations in connection with theoretical knowledge.
  (bb) Evaluations in connection with practical knowledge and skills.
  (cc) Compulsory attendance at and active participation in prescribed activities.
  (dd) A final comprehensive module test.

(ii) Students may exercise the option that the module mark at the **end of the semester** be ratified as the **final module mark** for the relevant module (i.e. they are exempted from the module examination for this module), if they comply with the following requirements:
  (aa) The abovementioned module mark is more than 65%.
  (bb) Proven attendance of all applicable module-specific activities, namely:
    - All tests/continuous evaluations.
    - All practical work and skills development sessions.
  (cc) Attendance of the relevant module from Day 1.
  (dd) No convictions by the School's Preliminary Disciplinary Committee (Student Transgressions) of any form of transgression.

(iii) A **module examination** is granted to all registered students (even if the module mark is more than 65%).

(iv) The **final module mark** is calculated from the examination mark and the module mark (continuous evaluation) in the ratio 50:50.

(v) A **second module examination** is granted to all students who have obtained a final module mark of 40% to 49%. Students who have obtained a module mark of less than 40%, fail the module and will have to repeat the year of study.

(vi) The relevant **second examination** will take place in November/December of the current year or in January of the subsequent year. A minimum of 50% is required to pass in the second examination.

(vii) **Aegrotats or extraordinary examinations**, for students who could not sit the module examination due to health or other acceptable reasons, will take place during the second examination period. Students must apply formally for these examinations, and will be admitted by the Chairperson of the School or

his/her authorised person. Where applicable, the Chairperson of the School may first require the recommendation of the Faculty Health Committee before admission to an aegrotat.

All modalities of a final examination must be written jointly as an aegrotat or extraordinary examination, even if part of the relevant examination had already been written during the previous examination period.

The **final module mark** is calculated from the marks of all the sections/ modalities of the aegrotat or extraordinary examination and the continuous evaluation mark. The same criteria as set for a pass mark in a module are applicable here. Students who could not sit the module examination in the examination period due to acceptable reasons, and who are consequently writing the module examination in the second examination period, forfeit the opportunity to be admitted to a further second examination.

4. **Exemption from the examination in (FAR) Pharmacology 381, 382**
Exemption from the examination can be granted if a student who obtained a module mark of at least 60%, exercises the option to accept it as the final mark.

5. **Exemption from the examination in (ANP) Anatomical Pathology 210**
Exemption from the examination may be granted if a student who obtained a module mark of at least 60%, exercises the option to accept it as the final mark.

6. **Academic exclusion from further study**
   (a) In accordance with the stipulations of General Regulation G.3.2(b), a student must complete the degree programme for which he or she is registered within the prescribed minimum period of study plus two years.
   (b) Subject to the stipulations mentioned in (a) above, a student in the School of Health Sciences, who fails a year of study for the second time, will only be allowed one opportunity to repeat a year of study, and will have to submit a written application for readmission to the programme in accordance with the prescribed procedure.

I. UNDERGRADUATE AND POSTGRADUATE DEGREES IN THE SCHOOL OF HEALTHCARE SCIENCES

1. DEGREES IN NURSING SCIENCE

H.1 Bachelor of Nursing Science [BCur] (Code 10131011)

Note: Also consult the General Regulations.

(a) **General information**
   (i) The Bachelor of Nursing Science [BCur] degree is a four-year, professional, career-oriented whole qualification that allows graduates to register with the South African Nursing Council (SANC) as:
      - Nurse (General, Psychiatric and Community); and
      - Midwife/Accoucheur
   (ii) Successful completion of the degree programme will present graduates with the opportunity to further their studies in Nursing Science at postgraduate level.

(iii) Candidates who comply with the necessary admission requirements will follow the prescribed curriculum, as set out in paragraph (e) below.
(iv) The compulsory **practical and clinical hours of training** amount to a grand total of at least 4 000 hours over a four-year period.

(b) **Admission requirements**
(i) A special selection procedure applies. A limited number of places are available annually. Application forms must be submitted before 31 May to be considered for the selection for the subsequent academic year.
(ii) The admission requirements are:
(aa) National Senior Certificate with admission for degree purposes.
(bb) English passed with a rating code of 4 (50-59%).
(cc) Life Orientation – excluded from APS calculation.
(dd) The following subjects are **recommended**: Life Sciences, Mathematics and Physical Science.
(ee) An APS of at least 25.
(ff) Proof of registration as a student nurse with the South African Nursing Council (SANC).

(c) **Practical and clinical training**
(i) The curriculum includes compulsory practical and clinical training modules, comprising a percentage of the total credits required for the successful completion of the programme.
(ii) Students will be registered as student nurses at an approved teaching hospital (or hospitals) for the duration of their studies.
(iii) Students will be required to visit clinics outside of the hospital as well as institutions where health services are provided.
(iv) Clinical training will take place for the duration of studies at the facilities mentioned above.
(v) Students will be required to sign a contract of service with the approved teaching hospital (or hospitals) in question – information will be made available after successful application for admission.

(d) **Duration**
(i) The programme extends over a period of four years of full-time study in preparation of registration with the South African Nursing Council (SANC) as a Nurse (General, Psychiatric and Community) and Midwife/Accoucheur.
(ii) Due to the compulsory practical and clinical training component as well as professional development, the curriculum cannot be completed in less than four years.
(iii) The training institutions in question will grant vacation and sick leave according to the applicable requirements of the South African Nursing Council (SANC).

(e) **Curriculum**
(i) A grand total of **881** credits for the coursework is required for degree purposes.
(ii) Credit values of the different modules of the subjects of the first, second, third and fourth years of study appear in brackets after the module codes in the table on the next page:

Curriculum	Year 1	Year 2	Year 3	Year 4
Modules	**Module code**	**Module code**	**Module code**	**Module code**
Fundamental modules				
Anatomy	ANA 151, 152, 161,162 (24)			
Medical terminology	MTL 180 (12)			
Academic English for Health Sciences	ELH 121, 122 (12)			
Academic Information management	AIM 101 (6)			
African language: Sepedi/isiZulu	SEP 110 or ZUL 110 (12)			
Microbiology		GMB 252, 253, 254 (18)		
Pharmacology			FAR 381 (18), 382 (18)	
Physiology	FSG 161, 162 (24)	FSG 251, 252 (12)		
Psychology		SLK 110, 120 (24)		
Systems of healthcare		SOH 254 (10)		
Core modules				
Nursing studies	NUR 151,152, 153, 154 (48)	NUR 251, 252, 253, 254, 255 (55)	NUR 351, 352, 353, 354 (72)	NUR 451, 452 (36)
Dynamics of nursing practice	DNP 151,152, 153, 154 (52)	DNP 251, 252, 253, 254 (36)	DNP 351, 352, 353*, 354* (60) *DNP 354 to be completed prior to *DNP 353	DNP 451, 452 (20)
Nursing practice education	NPE 161,162 (48)	NPE 261, 262 (48)	NPE 361, 362 (60)	NPE 461, 462 (100)
Research in healthcare sciences				RHC 480 (16)
Elective module				
Nursing studies				NUR 456 (40)

(f) **Exemption from the examination in (FAR) Pharmacology 381, 382**
Consult the stipulations under the School of Healthcare Sciences in this publication.

(g) **Promotion to a subsequent year of study:**

(i) Consult the general requirements for promotion to a subsequent year of study of the School of Healthcare Sciences in this publication.

(ii) Consult also the general pass requirements of the School of Healthcare Sciences for the calculation of the final mark in a module, the continuous assessment mark, etc. in this publication.

(iii) Concerning a pass in modules with practical and/or clinical training credits, the general requirements of the School of Healthcare Sciences must be consulted in this regard.

(iv) Students who fail to comply with all the requirements for a specific year of study, and who have not obtained the required number of credits, will not be allowed to register for any modules of the subsequent year of study, with the exception of certain fundamental modules, which may be taken in advance – consult the School's policy in this regard.
(v) Students in the abovementioned category must repeat the outstanding module(s) in question to acquire all the required credits for the relevant year of study and to be promoted to the following year of study.
(vi) Students who have to repeat specific modules, must also acquire a certificate of satisfactory attendance and progress in Nursing Practice Education (both modules of the year in question) in the year of repetition, even if the modules in question have already been passed in the unsuccessful year.
(vii) Examinations are compulsory in respect of all the modules presented by the Department of Nursing Science, as it is not possible to be promoted in any of these modules.
(viii) Each division of (NPE 461) Nursing practice education 461 must be passed individually with a subminimum of 50%.

(h) **Second examination opportunity**
Consult the requirements for a second examination opportunity in the School of Healthcare Sciences as set out in this publication.

(i) **Practical work**
Certain hospitals and healthcare facilities have been approved for the purposes of practical and clinical training in Fundamental Nursing Science, General Nursing Science, Psychiatric Nursing Science, Community Nursing Science and Midwifery.

(j) **Conferment of the degree**
The Bachelor of Nursing Science [BCur] is conferred on students who have fulfilled all the programme requirements as well as the prescribed practical and clinical training successfully.
Successful completion of the degree entitles the graduate to register with the South African Nursing Council as Nurse (General, Psychiatric and Community) and as Midwife/Accoucheur.

(k) **Degree with distinction**
The BCur degree is conferred with distinction on a student who has obtained:
(i) At least 75% in each of NPE 461, NPE 462 and NUR 456.
(ii) A joint average of at least 75% in NUR 451 and NUR 452.
(iii) A joint average of at least 75% in DNP 451 and DNP 452.

H.2 Bachelor of Nursing Science (Education and Administration) [BCur(I et A)] (Code 10131081)

Note:
Also consult the General Regulations.

(a) **General information**
(i) The Bachelor of Nursing Science (Education and Administration) [BCur(I et A)] provides professional nurses registered with the South African Nursing Council (SANC), with the opportunity of obtaining post-basic, professional qualifications in any of the following areas of specialisation (major speciality):
(aa) Nursing Management

(bb) Nursing Education
(cc) Community Nursing Science
(dd) Clinical Nursing Science, with a selected subspeciality in the second year of study, namely:
- Advanced Midwifery and Neonatal Nursing Science
- Neonatal Nursing Science
- Child Nursing Science
- Medical and Surgical Nursing Science: Critical Care Nursing: General
- Medical and Surgical Nursing Science: Critical Care Nursing:
- Paediatric
- Medical and Surgical Nursing Science: Critical Care Nursing: Trauma and Emergency Nursing
- Medical and Surgical Nursing Science: Operating Theatre Nursing
- Clinical Nursing Science, Health Assessment, Treatment and Care.

(ii) Successful completion of the degree programme will also provide graduates with the opportunity to further their studies, in their chosen fields of specialisation at postgraduate level, provided there are sufficient applications.
(iii) Candidates who comply with the admission requirements must compile a suitable curriculum in the selected area of specialisation, in consultation with the head of department.
(iv) The curriculum mentioned in (iii) above, must be reviewed on an annual basis in consultation with the head of department.

(b) **Requirements for admission**
(i) A selection process applies, based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the employer.
(ii) A National Senior Certificate with admission for degree purposes or a certificate of conditional exemption by virtue of mature age (prior to 2009).
(iii) Minimum requirements in respect of Grade 12 subjects are applicable in the case of conditional exemption (full details are available on request from Student Administration.)
(iv) Proof of registration with the South African Nursing Council as a General Nurse.
(v) Candidates who intend following Community Nursing Science must also be registered with the South African Nursing Council as Midwife/Accoucheur.
(vi) At least two years of appropriate experience in the workplace as registered nurse (excluding other nursing-related coursework) for Nursing Management and Nursing Education.
(vii) Candidates who intend following Clinical Nursing Science must also comply with the additional requirements for admission listed in paragraph (c) below.

(c) **Additional admission requirements for Clinical Nursing Science**
(i) At least one year of appropriate experience in the workplace, relevant to the area of specialisation and approved by the head of department; excluding other nursing-related coursework.
(ii) Students must have access, at least on a part-time basis, to clinical training facilities which are suitable for the proposed area of specialisation and approved by the head of department.

(iii) With the exception of the subspecialities Critical Care Nursing – General; Trauma and Emergency Nursing and Operating Theatre Nursing, students must also be registered with the South African Nursing Council as Midwife/Accoucheur.

(d) **Duration**

For degree purposes, the programme extends over a period of at least three academic years.

(e) **Grand total of credits required**

A minimum of **360** credits is required, subject to:

(i) The successful completion, at 100, 200 and 300 level, of two approved major subjects (core modules) within a given area of specialisation.
(ii) Successful completion of all prescribed fundamental modules.
(iii) Satisfactory performance and successful completion of the required practical work and/or clinical training specified for the field of specialisation in question.
(iv) Successful completion of an approved curriculum (degree programme) compiled of modules equivalent to ten year modules.

(f) **Curriculum**

Curriculum	**Year 1 (100 level)**	**Year 2 (200 level)**	**Year 3 (300 level)**
Modules	**Module code**	**Module code**	**Module code**
Fundamental modules (Generic to the degree programme, any area of specialisation):			
Nursing dynamics (equivalent to a year module)	VDN 110, 120	-	-
Nursing research methodology (equivalent to a year module)	-	-	VNM 100
Core modules (For the major areas of specialisation):			
Nursing Management (with Industrial and organisational psychology as second major subject)			
Nursing management (equivalent to 3 year modules)	VPB 110, 120, 160	VPB 250, 260	VPB 300
Nursing education theory (equivalent to a year module)	VOW 110, 120	-	-
Community nursing science (equivalent to a year module)	GVP 110, 120, 160	-	-
or	**or**		
Didactics of nursing education (equivalent to a year module)	DNE 110, 120, 160	-	-
Industrial and organisational psychology (equivalent to 3 year modules)	BDO 110, 120	BDO 219, 229	BDO 319, 329

Nursing Management (with Community nursing science as second major subject)			
Nursing management (equivalent to 3 year modules)	VPB 110, 120, 160	VPB 250, 260	VPB 300
Community nursing science (equivalent to 3 year modules)	GVP 110, 120, 160	GVP 250, 260	GVP 300
Nursing education theory (equivalent to a year module)	VOW 110, 120	-	-
Industrial and organisational psychology (equivalent to a year module)	BDO 110, 120	-	-
Nursing Education (with Nursing management as second major subject)			
Nursing education theory (equivalent to 3 year modules)	VOW 110, 120	VOW 250, 260	VOW 300
Didactics of nursing education (equivalent to a year module)	DNE 110, 120, 160	-	-
Nursing management (equivalent to 3 year modules)	VPB 110, 120, 160	VPB 250, 260	VPB 300
Industrial and organisational psychology (equivalent to a year module)	BDO 110, 120	-	-
Community Nursing Science (with Nursing education as second major subject)			
Community nursing science (equivalent to 3 year modules)	GVP 110, 120, 160	GVP 250, 260	GVP 300
Nursing education theory (equivalent to 3 year modules)	VOW 110, 120	VOW 250, 260	VOW 300
Didactics of nursing education (equivalent to a year module)	DNE 110, 120, 160	-	-
Nursing management (equivalent to a year module)	VPB 110, 120, 160	-	-
Clinical Nursing Science **(All subspecialties)**			
Clinical nursing science (equivalent to 3 year modules)	KVG 110, 120	KVG 250, 260	KVG 300
Systems of nursing practice (equivalent to 3 year modules)	VPT 160	VPT 260	VPT 360

Choose between: Nursing management (equivalent to a year module) **or** Nursing education theory (equivalent to a year module) Nursing science practical work (equivalent to a year module)	 VPB 110, 120, 160 VOW 110, 120 -	 - - VGK 201	 - - -
Elective modules (equivalent to 2 year modules, comprising KVG 250, 260 and VPT 260)		**Clinical Nursing Science Subspecialities at 200 level:** **Choose one of the following:** Advanced midwifery and neonatal nursing science Neonatal nursing science Child nursing science Critical care nursing science – General Critical care nursing – Paediatric Critical care nursing – Trauma and emergency nursing Operating theatre nursing Clinical nursing science, health assessment, treatment and care	

(g) **Transitional measures**

Students will be exempted from corresponding modules passed in the preceding seven (7) years.

(h) **Promotion to a subsequent year of study**

(i) Consult the general requirements for promotion to a subsequent year of study in the School of Healthcare Sciences as set out in this publication.

(ii) KVG and VPT at 100 level are also prerequisites for VGK 201.

(iii) Consult the general pass requirements regarding the passing of modules with practical and/or clinical training credits in the School of Healthcare Sciences as set out in this publication.

(iv) A student who has failed modules presented in the first semester by the Department of Nursing Science, will be allowed to repeat the examination in question at the end of the second semester.

(v) Consult the general pass requirements of the School of Healthcare Sciences for the calculation of the final mark in a module, the continuous evaluation mark, etc. in this publication.

(vi) **Note:**

- In the following 100-level modules, only satisfactory progress and attendance are required: VPB 160, DNE 160 and GVP 160.
- For specific prerequisites for BDO modules at 200 and 300 level: Consult the Yearbook of the Faculty of Economic and Management Sciences.

(i) **Second examination opportunity**

Consult the requirements for a second examination opportunity under the general pass requirements of the School of Healthcare Sciences in this publication.

(j) **Practical work**

Certain hospitals and healthcare facilities have been approved for the purposes of practical and/or clinical training. Students will be required to complete their practical work and/or clinical training at these facilities.

(k) **Faculty certificates**

(i) Students who exit from the programme before completing the degree, and who fulfil all the requirements for registration of an additional qualification with the SANC, will be issued with an applicable Faculty Certificate.

(ii) Listing or registration with the SANC can be obtained in the following areas of specialisation, depending on the specific modules passed:

(aa) **Listing:**

- Handling of Medicine in Nursing and the Physical Evaluation of Patients

(bb) **Registration:**

- Nursing Administration
- Nursing Education
- Community Nursing Science
- Advanced Midwifery and Neonatal Nursing Science
- Neonatal Nursing Science
- Child Nursing Science
- Medical and Surgical Nursing Science: Critical Care Nursing – General
- Medical and Surgical Nursing Science: Critical Care Nursing – Paediatric
- Medical and Surgical Nursing Science: Critical Care Nursing – Trauma and Emergency Nursing
- Medical and Surgical Nursing Science: Operating Theatre Nursing
- Clinical Nursing Science, Health Assessment, Treatment and Care

(l) **Conferment of the degree**

The Bachelor of Nursing Science (Education and Administration) [BCur(I et A)] is conferred on students who comply with all the requirements for the degree programme and who have completed all required practical and/or clinical training.

(m) **Degree with distinction and applicable endorsement of the degree certificate**

(i) The degree is conferred with distinction on a student who has obtained an average of at least 75% in the required 300-level modules.

(ii) The degree certificate will be endorsed with the specific area of specialisation (and the relevant subspeciality, in the case of Clinical Nursing).

H.3 Bachelor of Nursing Science Honours [BCurHons]

Suspended until further notice.

H.4 Master of Nursing Science [MCur]

Also consult the General Regulations.

(a) **Fields of study**

The Master of Nursing Science [MCur] degree is conferred in the following fields of study:

(i) Clinical fields of study: (Code 10251151)
Coursework: (Code 10251152)

(ii) Nursing Management: (Code 10251111)
Coursework: (Code 10251112)

(iii) Nursing Education: (Code 10251051)
Coursework: (Code 10251052)

(b) **Requirements for admission**

Option 1

MCur with coursework

(i) Subject to the stipulations of General Regulation G.62, the Bachelor of Nursing Science degree is required for admission. In the case of the non-clinical fields, another approved bachelor's degree may also be considered.

(ii) Successful completion of an entrance examination, according to the discretion of the head of department.

(iii) Additional admission requirements as listed below are required for each of the following fields of specialisation:

Clinical fields of specialisation:

(aa) A minimum of one year experience as registered nurse in the workplace, which is deemed appropriate by the head of department for the proposed field of study, other nursing science-related modules excluded.

(bb) Students must, at least on a part-time basis, have access to clinical learning facilities suitable for the chosen field of specialisation, and approved by the head of department for the field of study in question.

(cc) Registration with the South African Nursing Council (SANC) is required as follows:

- For **Advanced Medical and Surgical Nursing Science (Critical Care Nursing: General**), as general nurse.
- For **Advanced Medical and Surgical Nursing Science (Critical Care: Trauma and Emergency Nursing)**, as general nurse.
- For **Advanced Midwifery and Neonatal Nursing Science**, as general nurse and midwife/accoucheur.

- For **Advanced Psychiatric Nursing Science**, as general nurse and psychiatric nurse.
- For **Advanced Community Nursing Science**, as general nurse, midwife/accoucheur and community nurse.
- For **Advanced Paediatric Nursing Science**, as general nurse and midwife/accoucheur.
- For **Advanced Neonatal Nursing Science**, as general nurse and midwife/accoucheur.
- For **Advanced Women's Health**, as general nurse, midwife/ accoucheur and community nurse.
- For **Primary Curative Care**, as general nurse, midwife/accoucheur and community nurse, as well as listing with the SANC, in the Handling of Medicine in Nursing and the Physical Evaluation of Patients.

Non-clinical fields:

Registration with the South African Nursing Council (SANC) is required as follows:

- For **Nursing Management**, as general nurse and in Nursing Administration (Nursing Management).
- For **Nursing Education**, as general nurse and lecturer.

Option 2

MCur by virtue of a dissertation

Subject to the stipulations of General Regulations G.30 and G.62, at least a Bachelor of Nursing Science degree **and** according to the discretion of the head of department, an applicable post-basic qualification. The master's degree may only be awarded in the field of study of the prerequisite degree or equivalent qualification.

(c) **Duration of the programme and the grand total of credits required**

Option 1: MCur with coursework

(i) At least two academic years. Not all the different fields of study are presented every year. Commencement of studies must therefore be discussed beforehand with the head of department.

(ii) Total number of credits: **320-390** in a chosen field of study: provided that the prescribed curriculum is followed.

Option 2: MCur by virtue of a dissertation

(i) At least one academic year.

(ii) Total number of credits: **320**, of which 280 credits are allocated to the dissertation and 40 credits to (VNM 800) Nursing research methodology 800.

(d) **Curricula**

Option 1: MCur with coursework

(i) The curriculum comprises the chosen field of specialisation in Advanced Nursing Science or Advanced Women's Health or Primary Curative Nursing Science or Nursing Management or Nursing Education, Advanced Dynamics of Nursing Practice (DNP 800), Nursing research methodology 800 (VNM 800) and an essay (VGK 891). Consult par (iii) below regarding VNM 800 and VGK 891.

(ii) (VNM 800) Nursing research methodology 800 will exempt students who choose this option, from (TNM 800) Applied research methodology 800.

(iii) (VNM 800) Nursing research methodology 800 is a prerequisite for the successful completion of (VGK 891) Essay 891.

(iv) The modules prescribed for the fields of specialisation appear in the table below:

Modules in the field of specialisation	**Advanced dynamics of nursing practice**	**Nursing research methodology**	**Essay**
Clinical fields:			
Advanced Medical and Surgical Nursing Science (Critical Care Nursing: General) *(390 credits)*			
Year 1 AMS 860, 861, 862 **Year 2** AMS 870, 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Medical and Surgical Nursing Science (Critical Care: Trauma and Emergency Nursing) *(390 credits)*			
Year 1 ATN 860, 861, 862 **Year 2** ATN 870,871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Midwifery and Neonatal Nursing Science *(390 credits*)			
Year 1 AMN 860, 861, 862 **Year 2** AMN 870, 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Psychiatric Nursing Science *(390 credits)*			
Year 1 APN 860, 861, 862 **Year 2** APN 870, 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Community Nursing Science *(320 credits)*			
Year 1 ACN 861, 862 **Year 2** ACN 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Child Nursing Science *(390 credits)*			
Year 1 ACC 860, 861, 862 **Year 2** ACC 870, 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Neonatal Nursing Science *(390 credits)*			
Year 1 ANN 860, 861, 862 **Year 2** ANN 870, 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Advanced Women's Health *(320 credits*)			
Year 1 AVN 861, 862 **Year 2** AVN 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891

Primary Curative Care *(320 credits)*			
Year 1 APC 861, 862 **Year 2** APC 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Non-clinical fields:			
Nursing Management *(320 credits*)			
Year 1 ANX 861, 862 **Year 2** ANX 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891
Nursing Education *(320 credits*)			
Year 1 ANZ 861, 862 **Year 2** ANZ 871, 872	**Year 1** DNP 800	**Year 1** VNM 800	**Year 2** VGK 891

Option 2: MCur by virtue of a dissertation

(i) The degree is conferred on a student who has successfully completed (VNM 800) Nursing research methodology 800 and a dissertation (VGK 890).

(ii) VNM 800 is a prerequisite for the successful completion of the dissertation (VGK 890).

(e) **Pass and pass with distinction**

Option 1:MCur with coursework

(i) A final mark of at least 50% must be obtained in each of the prescribed modules in order to pass.

(ii) Modules with a practical and/or clinical training component can only be passed if the student has also completed all prescribed practical and/or clinical work to the satisfaction of the head of department.

(iii) The degree is conferred on a student who has complied with all the degree requirements.

(iv) **Degree with distinction:** The degree is conferred with distinction on a student who has maintained an average of at least 75% for the duration of his/her studies, with the exception of Nursing research methodology (VNM 800) and Advanced dynamics of nursing practice (DNP 800).

(v) Students who complete the degree in a clinical field of specialisation, will receive their degree certificates endorsed with the subspeciality in question.

Option 2: MCur by virtue of a dissertation

(i) A final mark of at least 50% is required in both VNM 800 and the dissertation in order to comply with all the requirements for the degree.

(ii) **Degree with distinction:** The degree is conferred with distinction on a student who has obtained at least 75% for the dissertation.

H.5 Doctor of Philosophy [PhD] (Code 10260311)

Field of study: Nursing Science

Also consult the General Regulations

Note: All PhD students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if (VNM 800) Nursing research methodology 800 has already been passed for the MCur degree.)

(a) Subject to the stipulations of General Regulations G.45 and G.62, a student will only be admitted to doctoral degree studies if he or she is in possession of a master's degree.
(b) The PhD degree study in the field of Nursing Science is conferred by virtue of a thesis and, if the Dean decides otherwise, an examination (VGK 900) which deals with the field of study of the thesis.
(c) The thesis (VGK 990) deals with a problem from one or other field of Nursing Science, it must give an overview of the literature on the topic, and a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached. It must furthermore convince the promoter and examiners that it represents original research.
(d) A complete research protocol in respect of the proposed thesis must be submitted to an evaluation committee at the commencement of the doctoral studies, and if necessary, also to the Ethics Committee for approval.
(e) The evaluation committee is constituted by the head of department, in conjunction with the Chairperson of the School, and will consist of experienced persons in research in the proposed field of study of the candidate.
(f) At least two committee members will be appointed from other national and/or international tertiary institutions. Due to financial constraints, technological aids will be used in the case of committee members from foreign universities who will therefore not be able to attend the meeting. The report of the evaluation committee will be made available to the candidate in writing.

H.6 Doctor of Nursing Science [DCur] (10261001)

Also consult General Regulation G.56.

The DCur degree is conferred by virtue of the publications of a candidate who enjoys international recognition on the grounds of his or her outstanding and extensive research.

II. DEGREES IN RADIOGRAPHY

H.7 Bachelor of Radiography [BRad]

Also consult General Regulations.

Specialisation
(i) Diagnostics (10137002)

(a) **Requirements for admission**
A National Senior Certificate with admission for degree purposes.
Note:
1. Grade 12 Mathematics, Physical Science and English passed with a minimum of 50% is a requirement.
2. Candidates must apply formally for admission to the first year of study, as all candidates are subjected to a selection procedure (consult General Academic Information in this publication).

3. Each student in Radiography must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Radiography immediately after admission to the first year of study.

(b) **Nature and duration of the programme**

The programme extends over three years' full-time study, during which period a student radiographer will be attached to an institution approved by the Department of Radiography. Students must comply with the stipulations of the Health Professions Council of South Africa concerning the required number of practical hours and as determined by the Department of Radiography.

(c) **Curriculum**

Total number of credits: 431

(i) **First year of study**

The credit value per module is indicated in brackets after each module code in the table below:

Module	Module code
Fundamental modules	
Academic information management 101	AIM 101 (6)
Academic English for Health Sciences 121, 122	ELH 121 (6) ELH 122 (6)
Radiographic anatomy 100	RAN 100 (20)
Radiation physics 110	RFI 110 (10)
Physiology 161, 162	FSG 161 (12) FSG 162 (12)
Medical terminology 180	MTL 180 (12)
African language: Sepedi 110/ IsiZulu 110	SEP 110 or ZUL 110 (12)
Core modules	
Radiographic imaging 182	RAW 182 (20)
Radiography 180	RAW 180 (50)
Elective modules	
None	

(ii) **Second year of study**

The credit value per module is indicated in brackets after each module code in the table on the following page.

Module	Module code
Fundamental modules	
Radiographic anatomy 280	RAN 280 (10)
Radiation physics 210	RFI 210 (10)
Radiation physics 211	RFI 211 (10)
Physiology 251	FSG 251 (6)
Physiology 252	FSG 252 (6)
Physiology 262	FSG 262 (6)
Basic emergency care 286	GNK 286 (5)
Core modules	
Diagnostics	
Radiographic imaging 282	RAW 282 (20)
Radiography 280	RAW 280 (54)

Radiation therapy and nuclear medicine 284	RAW 284 (10)
Elective modules None	

(iii) **Third year of study**
The credit value per module is indicated in brackets after each module code in the table below.

Module	**Module code**
Fundamental modules	
Radiographic anatomy 380 Radiation physics 310 Research in healthcare sciences 480 Anatomical pathology 210	RAN 380 (10) RFI 310 (10) RHC 480 (16) ANP 210 (10)
Core modules **Diagnostics** Radiography 380 Radiography practice 382	 RAW 380 (52) RAW 382 (30)
Elective modules None	

(d) **Promotion to a subsequent year of study**
Consult the general requirements for promotion to a subsequent year of study under the School of Healthcare Sciences, in this publication.

(e) **Pass requirements**
(i) **Subminimum:** A subminimum of 40% is required in the written as well as the practical/clinical sections of the examination in Radiography at 100, 200 and 300 level.
(ii) Consult the general pass requirements of the School of Healthcare Sciences, for the calculation of the final mark in a module, the continuous assessment mark, obtaining a pass mark in modules with practical and/or clinical components, etc.

(f) **Second examination opportunities**
Second examinations are granted according to the stipulations of the general pass requirements of the School of Healthcare Sciences.

(g) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the final-year modules.

H.8 Bachelor of Radiography Honours [BRadHons]

Also consult Gen. Reg. G.18.

Note:
All students must register for NVB 700 Research principles.

(a) **Requirements for admission**
(i) Subject to the stipulations of General Reg. G.62, a candidate must hold the BRad degree, or an equivalent qualification in the relevant field of

specialisation for admission to honours degree study, and must be registered as a radiographer with the Health Professions Council of South Africa.

(ii) A student must be appointed in a full-time position at an institution approved by the Department for this purpose.

(b) **Fields of specialisation and duration**

- Diagnostics: Two years part-time
- Radiation Therapy: Two years part-time
- Nuclear Medicine: Two years part-time

(c) **Curriculum**

(i) **Diagnostics (Code 10247062)**

(The credit value of each module appears in brackets in the table below.)

Module	Module code
Fundamental modules	
Research principles 700	NVB 700 (20)
Radiographic anatomy 700	RAN 700 (20)
Anatomical pathology 703	ANP 703 (5)
Core module	
Compulsory core module	
Essay 700	RSK 700 (30)
Choose (in consultation with the Department) a total of 90 credits from the following core modules:	
Quality assurance 780	RAW 780 (30)
Image interpretation 781	RAW 781 (30)
Computer tomography 782	RAW 782 (30)
Magnetic resonance 783	RAW 783 (30)
Intervention 784	RAW 784 (30)

A student must obtain at least **160** credits to comply with degree requirements.

Note:

(aa) Students who specialised at undergraduate level (i.e. from the second year of study) in Radiation Therapy or in Nuclear Medicine, register according to the curriculum as set out in (ii) and (iii) below.

(ii) **Radiation Therapy (Code 10247061)**

(The credit value of each module appears in brackets in the table below.)

Module	Module code
Fundamental modules	
Research principles 700	NVB 700 (20)
Core modules	
Radiation therapy 700	RSZ 700 (50)
Dosage planning 700	DSB 700 (30)
Oncological behavioural science 700	OKG 700 (30)
Essay 700	RSK 700 (30)

(iii) **Nuclear Medicine (Code 10247071)**

(The credit value of each module appears in brackets in the table below.)

Module	Module code
Fundamental modules	
Research principles 700	NVB 700 (20)

Core modules	
Nuclear medicine 700	KDE 700 (50)
Radiopharmacology 700	RDF 700 (30)
Instrumentation 700	INX 700 (30)
Essay 700	RSK 700 (30)

Note:

(bb) Students who did not register at undergraduate level (i.e. from the second year of study) in Radiation Therapy or Nuclear Medicine, register according to the undermentioned curricula:

(iv) **Radiation Therapy (Code 10247011)**
(The credit value of each module appears in brackets in the table below.)

Module	Module code
Fundamental modules	
Research principles 700	NVB 700 (20)
Core modules	
Radiation therapy 701	RSZ 701 (40)
Essay 700	RSK 700 (30)
Radiotherapeutic dosage planning 700	RDB 700 (40)
Radiation physics and radio protection 700	SFR 700 (20)
Clinical oncology and tumour pathology 701	KOZ 701 (10)

(v) **Nuclear Medicine (Code 10247021)**
(The credit value of each module appears in brackets in the table below.)

Module	Module code
Fundamental modules	
Research principles 700	NVB 700 (20)
Core modules	
Nuclear medicine701	KDE 701 (30)
Essay 700	RSK 700 (30)
Theory of nuclear medicine 710	TKG 710 (30)
Radiochemistry and radiopharmacology 700	RCF 700 (25)
Radiation physics and instrumentation for nuclear medicine 700	SFI 700 (20)

(d) **Second examinations**
Second examinations may be granted in modules not passed, according to the stipulations of the School of Healthcare Sciences in this regard.

(e) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in all the modules for the degree.

H.9 Master of Radiography [MRad]

Also consult General Regulations.

Fields of specialisation

Diagnostics	(Code 10257001)
Nuclear Medicine	(Code 10257021)
Radiation Therapy	(Code 10257012)

(a) **Requirements for admission**
Subject to the stipulations of General Regulation G.62, at least a bachelor honours degree in Radiography is required, as well as registration as a radiographer with the Health Professions Council of South Africa.
The master's degree may only be taken in the field of study in which the foregoing degree or equivalent qualification has been obtained.

(b) **Duration**
The programme extends over one academic year.

(c) **Curriculum**
(i) A dissertation in the field of Diagnostics (RSD 890) or Nuclear medicine (KDE 890) or Radiation therapy (RSZ 890).
(ii) (TNM 800) Applied research methodology 800 or an equivalent module must be passed.

(d) **Degree with distinction**
A minimum of 75% must be obtained in the dissertation, to obtain the degree with distinction.

H.10 Doctor of Philosophy [PhD] (Code 10260571)

Also consult the General Regulations

Note: All PhD students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if the module has already been passed for the MRad degree.)

Field of study: Radiography

(a) Subject to the stipulations of General Regulations G.45 and G. 62, a student will only be admitted to doctoral degree studies if he or she is in possession of a master's degree.
(b) The PhD degree study in the field Radiography is conferred by virtue of a thesis and, unless the Dean decides otherwise, an examination (RAD 900) which deals with the field of the thesis.
(c) The thesis (RAD 990) must deal with a problem from one or other field of Radiography, it must give an overview of the literature on the topic, and a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached, and furthermore convince the promoter and examiners that it represents original research.
(d) A complete research protocol in respect of the proposed thesis must be submitted to an evaluation committee at the commencement of the doctoral studies, and also to the Ethics Committee for approval.
(e) The evaluation committee is constituted by the head of department, in conjunction with the Chairperson of the School, and will consist of experienced persons in research in the proposed field of study of the candidate.
(f) At least two committee members will be appointed from other national and/or international tertiary institutions. Due to financial constraints, technological aids will be used in the case of committee members from foreign universities who will therefore be unable to attend the meeting. The report of the evaluation committee will be made available to the candidate in writing.

III. DEGREES IN OCCUPATIONAL THERAPY

H.11 Bachelor of Occupational Therapy [BOccTher] (Code 10138001)

Also consult General Regulations.

(a) **Requirements for admission**

(i) A National Senior Certificate with admission for degree purposes with English, Physical Science and Mathematics.

(ii) In order to retain his or her selection, a student must obtain an APS of at least 30 in the final Grade 12-examination, as well as a 5 (60-69%) rating code in Physical Science and a 4 (50-59%) in Mathematics.

(iii) Formal application must be made for admission to the first year of study, as admission is subject to selection.

(iv) Students in the first year of study who do not qualify for admission to the second year of study are automatically subjected to selection again.

Note: Each student in Occupational Therapy must apply immediately after admission to the first year of study, to the Registrar of the Health Professions Council of South Africa for registration as a student in Occupational Therapy.

(b) **Nature and duration**

(i) The programme extends over four academic years, during which period a student receives clinical training as a student occupational therapist at an institution approved by the University.

(ii) Students must complete at least 1 000 hours' clinical practical work over the four years of study in order to register as an occupational therapist with the Health Professions Council of South Africa.

(iii) Students may complete the first three years over four years. In such cases, the choice of modules for the different years is done at the commencement of studies, in conjunction with the head of department.

(c) **Pass requirements and grand total of credits for degree purposes**

(i) **Subminimum:** In modules with a written as well as a practical and/or clinical examination, a subminimum of 40% is required in the written as well as the practical and/or clinical sections of the examination.
Also consult the general pass requirements of the School of Healthcare Sciences for the calculation of the final mark in a module, the continuous evaluation mark, obtaining a pass mark in modules with practical and/or clinical components, etc.

(ii) **Grand total of credits required to comply with degree requirements**
At least 589.

(d) **Second examination opportunity**

Consult the requirements for a second examination opportunity under the general pass requirements of the School of Healthcare Sciences.

(e) **Promotion to a subsequent year of study**

Consult the general requirements for promotion to a subsequent year of study of the School of Healthcare Sciences.

(f) **First year of study**
Curriculum
(Credit values per module appear in brackets in the table below.)

Module	Module code
Fundamental modules	
Anatomy 151, 152, 161, 162 (24)	ANA 151, 152, 161, 162
Academic English for Health Sciences 121,122 (12)	ELH 121, 122
Academic information management 101 (6)	AIM 101
Psychology 110, 120 (24)	SLK 110, 120
Physiology 161, 162 (24)	161, 162
Medical terminology 180 (12)	MTL 180
Basic emergency care 286 (5)	GNK 286
Core modules	
Occupational science 100 (25)	AKU 100
Occupational therapy 100 (16)	ART 100
Total number of credits required:	**148**

Important
*The modules AIM 101 Academic information management and ELH 121 and 122 Academic English for Health Sciences must be completed before registration for the fourth year of study.

(g) **Admission to the second year of study**
(i) Consult par. (e) above in connection with promotion to a subsequent year of study.

(h) **Second year of study:**
Curriculum (credit values of modules appear in brackets)

Module	Module code
Fundamental modules	
Psychology 210, 220 (40)	SLK 210, 220
Physiology 251, 252, 261, 262 (24)	FSG 251, 252, 261, 262*
Research and professional development 200 (10)	RPD 200
Core modules	
Occupational science 200 (10)	AKU 200
Occupational therapy 281 (12)	ART 281
Occupational therapy 282 (12)	ART 282
Occupational therapy 283 (12)	ART 283
Occupational therapy 284 (14)	ART 284
Total number of credits required:	**134**

Note:
*Consult the Department of Physiology regarding possible prerequisites for the modules in question.

(i) **Admission to the third year of study**
Consult par (e) above for promotion to a subsequent year of study.

(j) **Third year of study**
Curriculum (credit values of modules appear in brackets)

Module	Module code
Fundamental modules	
Anatomical pathology 210 (10)	ANP 210
Research and professional development 380 (20)	RDP 380
African language: Sepedi 110 or IsiZulu 110 (12)	SEP110 or ZUL 110
Core modules	
Occupational science 303 (25)	AKU 303
Occupational science 381 (25)	AKU 381
Occupational science 382 (25)	AKU 382
Occupational therapy 381 (20)	ART 381
Occupational therapy 382 (20)	ART 382
Total number of credits required	**157**

(k) **Admission to the fourth year of study:**
A student must pass all the modules of the first, second and third year of study to be admitted to the fourth year of study.

(l) **Fourth year of study**
Curriculum (credit values of modules appear in brackets)

Module	Module code
Fundamental modules	
Research and professional development 481 (15)	RPD 481
Core modules	
Occupational therapy 401 (45)	ART 401
Occupational therapy 402 (45)	ART 402
Occupational science 400 (45)	AKU 400
Total number of credits required:	**150**

(m) **Examination after one semester**
A final-year student who has failed one module but who has passed all other modules, may be admitted to a special examination in the module in question at the end of the first semester of the subsequent year, after satisfactory attendance at lectures and clinical work during the first semester.

(n) **Degree with distinction**
The BOccTher degree is conferred with distinction on a student who has obtained an average of at least 75% in the core modules in the final year of study.

H.12 Bachelor of Occupational Therapy Honours [BOccTherHons]

Suspended until further notice.

H.13 Master of Occupational Therapy [MOccTher]

Also consult the General Regulations.
Note: Students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if the module, BSN 701 Biostatistics and research methodology, has been passed for the BOccTherHons degree.)

(a) **Admission requirements**

(i) Subject to the stipulations of General Regulation G.62, the Bachelor's degree in Occupational Therapy or an equivalent qualification is required for admission, as well as registration as occupational therapist with the Health Professions Council of South Africa.

(ii) A student must have at least one year clinical experience in the proposed field of study (Community service year excluded).

(iii) A student must hold at least a 15 hours per week position for the duration of study deemed applicable to the proposed field of study by the head of department.

(iv) Fields of specialisation for the MOccTher degree with coursework are offered on an annual basis if at least five applicants apply for admission to a particular field of specialisation. The closing date for new applications is 31 October annually. Applicants will be notified as soon as possible after this date, whether or not a particular field of specialisation will be presented in the subsequent year. Commencent of studies must, therefore, be discussed beforehand with the head of department.

(v) For the MOccTher degree by virtue of research, a written structured letter of motivation must be submitted with the application on 31 October.

(b) **Duration**

At least two academic years. Commencement of studies must first be discussed with the head of department, as not all the specialisations are offered each year.

(c) **Curricula**

(i) **MOccTher with coursework:**

The curriculum comprises a major subject and prerequisite subjects.

Fields of specialisation

(aa) **Hand Therapy (Code 10258011)**

Major subject:	ART 801	Occupational therapy 801
Essay:	ART 891	Essay: Occupational therapy 891
Prerequisite subjects:	AAN 802	Occupational therapeutic anatomy 802
	FSG 881	Physiology 881
	ANP 891	Anatomical pathology 891
	ATP 800	Theory in occupational therapy practice 800

(bb) **Neurology (Code 10258021)**

Major subject:	ART 802	Occupational therapy 802
Essay:	ART 891	Essay: Occupational therapy 891
Prerequisite subjects:	AAN 803	Occupational therapeutic anatomy 803
	FSG 881	Physiology 881
	ANP 891	Anatomical pathology 891
	ATP 800	Theory in occupational therapy practice 800

(cc) **Paediatrics (Code 10258031)**

Major subject:	ART 803	Occupational therapy 803
Essay:	ART 891	Essay: Occupational therapy 891
Prerequisite subjects:	AAN 803	Occupational therapeutic anatomy 803
	FSG 881	Physiology 881
	ANP 891	Anatomical pathology 891

ATP 800 Theory in occupational therapy practice 800

(dd) **Psychiatry (Code 10258141)**

Major subject:	ART 804	Occupational therapy 804
Essay:	ART 891	Essay: Occupational therapy 891
Prerequisite subjects:	PGP 800	Psychopathology 800
	FSG 881	Physiology 881
	AAN 803	Occupational therapeutic anatomy 803
	GRA 800	Groups in occupational therapy 800
	ATP 800	Theory in occupational therapy practice 800

(ee) **Activity Theory (Code 10258051)**

Major subject:	ART 805	Occupational therapy 805
Essay:	ART 891	Essay: Occupational therapy 891
Prerequisite subjects:	FSG 881	Physiology 881
	AAN 803	Occupational therapeutic anatomy 803
	ATP 800	Theory in occupational therapy practice 800

(ii) **MOccTher by virtue of research (Code 10258001)**
Curriculum

(aa) A dissertation (ART 890) on an approved topic based on research.

(bb) Successful completion of (ART 800) Occupational therapy 800 (attendance module) and (ATP 800) Theory in occupational therapy practice 800.

(d) **Examination**

MOccTher with coursework

(i) A continuous evaluation mark of at least 50% is required for admission to the examination in the major subject.

(ii) The sequence of the examinations in the prerequisite subjects will be determined by the head of department according to the major subject followed by the student.

(iii) In order to pass, a subminimum of 40% in the written and/or practical and/or clinical sections of the examination, and a final mark of at least 50%, is required in the major as well as the prerequisite subject.

MOccTher by virtue of a dissertation

The minimum pass mark for the dissertation is 50%.

(e) **Degree with distinction**

(i) **MOccTher with coursework**

The degree is conferred with distinction on a student who has obtained at least 75% in the major subject, and an average of at least 65% in the prerequisite subjects.

(ii) **MOccTher with dissertation**

The degree is conferred with distinction on a student who has obtained at least 75% for the dissertation and at least 65% in the module (ATP 800) Theory in occupational therapy practice 800. (TNM 800) Applied research methodology 800 and (ART 800) Occupational therapy 800 must have been attended satisfactorily.

H.14 Doctor of Philosophy [PhD]
(Code 10260321)

Also consult General Regulations.

Note: All PhD students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if (TNM 800) Applied research methodology 800 has been passed for the MOccTher degree.)

Field of study: Occupational Therapy

(a) Subject to the stipulations of General Regulations G.45 and G.62, a candidate for admission to doctoral degree studies must hold a master's degree.
(b) The PhD in Occupational Therapy is conferred by virtue of a thesis and, unless the Dean decides otherwise, an examination (code ART 900) pertaining to the field of study chosen for the thesis.
(c) The thesis (ART 990) must deal with a problem in a field of Occupational Therapy; it must give a synopsis of the literature on the topic and contain a description of the observations made and experiments done by the student as well as a discussion of the conclusions reached.

H.15 Doctor of Occupational Therapy [DOccTher]
(Code 10268001)

Also consult General Regulations.

Note: All DOccTher students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if (TNM 800) Applied research methodology 800 has been passed for the MOccTher degree.)

The DOccTher degree is conferred by virtue of a thesis (ART 990) and, unless the Dean decides otherwise, an examination (ART 900) on the field of study pertaining to the thesis.

IV. DEGREES IN PHYSIOTHERAPY

H.16 Bachelor of Physiotherapy [BPhysT]
(Code 10138101)

Also consult General Regulations G.1 to G.15.

(a) **Requirements for admission**
(i) Only selected candidates will be admitted. A National Senior Certificate with admission for degree purposes is required, with at least a 4 (50-59%) in English, Mathematics and Physical Science in the final Grade 12 examination.
(ii) Selected first-year students who have passed in sufficient first-semester modules at 100 level will, according to the stipulations of General Regulation G.3, automatically be admitted to the second semester of the first year of study. During the second semester, students may follow the outstanding module(s) on an anti-semester basis and write the examination, on the condition that the modules in question are indeed presented on an anti-

semester basis in the second semester by the relevant department and can be accommodated in the class and examination timetables.

(iii) If a student fails one or more first-year modules, he or she forfeits selection and must apply again for selection for the first year of study.

(vi) **Note:** Each student in Physiotherapy must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Physiotherapy immediately after admission to the first year of study.

(b) **Nature and duration**

(i) The programme extends over four academic years, during which period a student receives clinical training as a student physiotherapist at an institution approved by the University.

(ii) Students may be allowed to extend the first two years of study over three years, in which case the modules per year must be selected in consultation with the head of department at the commencement of studies.

(c) **Pass requirements and grand total credits required for degree purposes**

Consult the general pass requirements of the School of Healthcare Sciences for the calculation of the final mark in a module, the continuous evaluation mark, obtaining a pass mark in modules with practical and/or clinical components, etc.

The grand total of credits required to comply with degree requirements, is at least 636.

(d) **Second examination opportunity**

Consult the requirements for a second examination opportunity under the general pass requirements of the School of Healthcare Sciences.

(e) **Promotion to a subsequent year of study**

Consult the general requirements for promotion to a subsequent year of study in the School of Healthcare Sciences. Modules/subjects with practical and clinical training credits cannot be passed, unless all prescribed clinical hours and practical skills have been completed to the satisfaction of the head of department.

(f) **Curriculum**

(i) **First year of study**

(Credit values indicated below are per module)

Module	Module code	Credits	Semester
Fundamental modules			
Physics 131	PHY 131	16	1
Chemistry 151	CMY 151	16	1
Psychology 110	SLK 110	12	1
Anatomy 151, 152, 161, 162	ANA 151, 152, 161, 162	24	1 + 2
Physiology 161, 162	FSG 161, 162	24	2
Academic information management 101	AIM 101	6	1
Academic English for Health Sciences	ELH 121, 122	12	1 + 2
African language: Sepedi 110 or IsiZulu 110	SEP 110 or ZUL 110	12	1
Core modules			
Physiotherapy 100	FTP 100	15	1 + 2
Total number of credits for the first year:		**137**	

(ii) **Subminimum**
A subminimum of 40% is required in the theoretical as well as in the practical examination in FTP 100.

(iii) **Practical nursing**
Practical nursing for a continual period of 40 hours must be completed satisfactorily at an approved hospital/facility after the conclusion of the examination period in November. Documentary proof to this effect must be submitted.

(g) **Second year of study**

(i) **Curriculum**

Module	Module code	Credits	Semester
Fundamental modules			
Physiology 251, 252, 261, 262	FSG 251, 252, 261, 262	24	1+2
Anatomical pathology 210	ANP 210	10	1
Systems in healthcare 254	SOH 254	10	2
Medical microbiology 252, 253, 254	GMB 252, 253, 254	18	1+2
Basic emergency care 286	GNK 286	5	1
Psychology 210	SLK 210	20	1
Core modules			
Physiotherapy 203	FTP 203	52	1+2
Physiotherapy clinical practice 220	FTP 220	20	2
Professional development and leadership 251	POL 251	10	1
Total number of credits for the second year:		**169**	

(ii) **Basic Emergency Care (Code GNK 286)**

- If students obtain 60% or more in Basic Emergency Care, this mark will be validated as the **examination mark** at the end of the year, and such students will be exempted from the examination in the module.
- Students who obtain between 40% and 49% in the calculated mark for the module, will be admitted to a second examination in November/ December of the same year, or in January of the following year. A minimum of 50% is required as a pass mark for the second examination.
- This examination will also serve as an aegrotat or extraordinary examination for students who could not write the initial examination due to health or other acceptable reasons. A student must, however, apply formally to be admitted to such an examination, and the application must be approved by the Dean, on the recommendation of the head of department, and in some cases, also by the Faculty Health Committee.

(iii) **Subminimum**
A subminimum of 40% is required in the theoretical and practical components in the examination in FTP 220 and 203 and in POL 251.

(iv) **Exemption from the examination in (ANP) Anatomical pathology 210**
Consult the stipulations as set out under the School of Healthcare Sciences.

(h) **Admission to the third year of study**
A student must pass all the modules of the second year of study for admission to the third year of study.

(i) **Third year of study**

(i) **Curriculum**

Module	Module code	Credits	Semester
Fundamental modules			
Ethics and law in healthcare 310	MRZ 310	8	2
Research in healthcare sciences 480	RHC 480	16	1
Pharmacology 381, 382	FAR 381, 382	36	1 + 2
Core modules			
Physiotherapy 300	FTP 300	40	1 + 2
Physiotherapy clinical practice 301	FTP 301	60	1 + 2
Professional development and leadership 300	POL 300	13	1 + 2
Total number of credits for the third year:		**173**	

(ii) **Subminimum**

A subminimum of 40% is required in the theoretical and practical/clinical examination in (FTP) Physiotherapy 300, (FTP) Physiotherapy clinical practice 301 and (POL) Professional development and leadership 300.

(iii) **Exemption from the examination in (FAR) Pharmacology 381, 382**

Consult the stipulations of the School of Healthcare Sciences in this regard.

(j) **Fourth year of study**

(i) **Curriculum**

Module	Module code	Credits	Semester
Fundamental modules			
None			
Core modules			
Physiotherapy 400	FTP 400	30	1+2
Physiotherapy research 401	FTP 401	20	1+2
Physiotherapy clinical practice 402	FTP 402	88	1+2
Professional development and leadership 400	POL 400	19	1+2
Elective modules			
None			
Total number of credits for the fourth year:		**157**	

(ii) **Subminimum**

A subminimum of 40% is required in clinical/practical as well as theoretical components of the examination of (FTP 400,402) Physiotherapy 400 and 402 and (POL 400) Professional development and leadership 400.

(iii) **Special examination: Fourth year of study**

(aa) The student gets another opportunity to take part in the examination.

(bb) A special examination in (FTP 400) Physiotherapy 400, (FTP 402) Physiotherapy clinical practice 402 and (POL 400) Professional development and leadership 400 is conducted after six months have elapsed since the examination in which the student failed. If the

student failed in (FTP 402) Physiotherapy clinical practice 402, he or she must undergo further clinical instruction in the clinical training areas and obtain at least 50% in the examination.

(cc) A student who has not obtained a pass mark in the essay of (FTP 401) Physiotherapy 401, must submit an amended essay at a later date determined by the head of department.

(iv) **Ancillary examination: Fourth year of study**
After the conclusion of the examination in (FTP 400) Physiotherapy 400 and (FTP 402) Physiotherapy clinical practice 402 and before the results are announced, the examiners may, with a view to awarding a final mark, summon a student for an ancillary examination in the theory and/or clinical component of (FTP 400) Physiotherapy 400 and (FTP 402) Physiotherapy clinical practice 402.

(k) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained at least 75% in (FTP 400) Physiotherapy 400 and (FTP 402) Physiotherapy clinical practice 402 and a joint average of at least 75% in (FTP 401) Physiotherapy research 401 and (POL 400) Professional development and leadership 400.

H.17 Master of Physiotherapy [MPhysT]

Also consult General Regulations.

(a) **Requirements for admission**

(i) Subject to the stipulations of General Regulation G.62, the BPhysT degree or an equivalent qualification is required, as well as registration as a physiotherapist with the Health Professions Council of South Africa.

(ii) For the MPhysT degree, students must also hold at least a part-time position, deemed applicable for master's degree studies by the head of department.

(iii) Candidates will be required to provide proof of having successfully completed applicable postgraduate modules in clinical fields of specialisation, e.g. Orthopaedic Manual Therapy 1, before the MPhysT degree will be conferred.

(iv) A candidate who applies for admission to the MPhysT degree studies by virtue of research (Code 10258101), must comply with the following requirement:
Complete applicable continued training courses presented at national level, in the field of research, as accredited with the Professional Board of Physiotherapy, Biokinetics and Podiatry.

(v) During the MPhysT studies, students must participate in formal departmental instruction and/or research programmes of at least 60 hours per year.

(vi) Postgraduate modules for all the fields of specialisation for the MPhysT degree with coursework, are offered on a biennial basis, if at least five applicants apply for admission to a particular field of specialisation. The closing date for new applications is 31 October annually. Applicants will be notified as soon as possible after this date, whether or not a particular field of specialisation will be presented in the subsequent year. Commencement of studies must, therefore, be discussed beforehand with the head of department.

(vii) The closing date for applications is 31 October annually.

(b) **Duration**
At least two academic years.

(c) **Curricula**

(i) **MPhysT with coursework**

The basic curriculum consists of a number of fundamental modules which are prerequisites for the core modules in the field of specialisation.

Fields of specialisation

Note: The credit value of each module is indicated in brackets in the table below.

(aa) **Surgery (Code 10258132)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 871	FSA 871	15
Physiology 878	FSG 878	15
Physiotherapy 801	FTB 801	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Surgery 801	FTK 801	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Surgery 801	FTK 801	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(bb) **Internal Medicine (Code 10258162)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 808	FSA 808	15
Physiology 877	FSG 877	15
Physiotherapy 802	FTB 802	35
Professional physiotherapy practice 802	FTX 802	26
Core modules		
Clinical physiotherapy: Internal medicine 802	FTK 802	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35

Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Internal medicine 802	FTK 802	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(cc) **Paediatrics (Code 10258172)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 870	FSA 870	15
Physiology 874	FSG 874	15
Physiotherapy 803	FTB 803	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Paediatrics 803	FTK 803	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 803	FTX 803	26
Core modules		
Clinical physiotherapy: Paediatrics 803	FTK 803	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(dd) **Neurology/Neurosurgery (Code 10258232)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 807	FSA 807	15
Physiology 874	FSG 874	15
Physiotherapy 804	FTB 804	35
Professional physiotherapy practice 801	FTX 801	26
Core module		
Clinical physiotherapy: Neurology 804	FTK 804	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Neurology 804	FTK 804	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(ee) **Women's Health (Code 10258182)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 809	FSA 809	15
Physiology 871	FSG 871	15
Physiotherapy 805	FTB 805	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Women's health 805	FTK 805	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Women's health 805	FTK 805	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*****Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(ff) **Orthopaedics (Code 10258202)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 806	FSA 806	15
Physiology 872	FSG 872	15
Physiotherapy 806	FTB 806	35
Professional physiotherapy practice 801	FTX 801	26

Core modules		
Clinical physiotherapy: Orthopaedics 806	FTK 806	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Orthopaedics 806	FTK 806	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(gg) **Orthopaedic Manual Therapy (Code 10258212)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 807	FSA 807	15
Physiology 877	FSG 877	15
Physiotherapy 807	FTB 807	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Orthopaedic manual therapy 807	FTK 807	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Orthopaedic manual therapy 807	FTK 807	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(hh) **Sports Medicine (Code 10258222)**

Year 1

Module	Module code	Credits
Fundamental modules		
Physiotherapeutic anatomy 875	FSA 875	15
Physiology 875	FSG 875	15
Physiotherapy 808	FTB 808	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Sports medicine 808	FTK 808	160

Year 2

Module	Module code	Credits
Fundamental modules		
Pharmacology 871*	FAR 871	35
Professional physiotherapy practice 801	FTX 801	26
Core modules		
Clinical physiotherapy: Sports medicine 808	FTK 808	160
Applied research methodology 800*	TNM 800	5
Research project 893	FTP 893	16

*Candidates who have passed with at least 60% in corresponding modules to those indicated with * above during the four-year BPhysT degree studies or an equivalent degree programme must, in consultation with the head of department, select relevant modules from any faculty of the University of Pretoria, instead of the modules in question to the value of at least **69** credits, provided it can be accommodated in the class and examination timetables.

(ii) **MPhysT by virtue of research (Code 10258101)**

Note: All MPhysT students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily.

(aa) **Dissertation**

The master's degree is conferred by virtue of a dissertation (FTP 890), on an approved topic based on research.

(bb) **Publication**

All students must submit a publication that has been accepted for publication by an accredited journal before the degree will be conferred.

(d) **Examinations**

MPhysT with coursework

(i) The examinations in the prerequisite modules will take place prior to or concurrently with that of the major subject as determined by the head of department.

(ii) The examination consists of a written and a clinical as well as an oral component.

(iii) A subminimum of 50% is required in each section of the examination, with a final mark of at least 50% to pass.

(iv) A student will be granted a second opportunity to take part in the examination in the major subject after at least six months have elapsed since the original examination took place.

(v) Students must submit a publication that has been accepted by an accredited journal for publication before the degree will be conferred.

(vi) Candidates who submit certificates of successful completion of modules in

the Continued Professional Development programme with a view to admission to the MPhysT with coursework, must pass in an open examination in the module in question in order to retain credits.

(e) **Degree with distinction**

(i) **MPhysT with coursework**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the major subject and the prerequisite subjects, and at least 60% in all other prescribed modules.

(ii) **MPhysT by virtue of research**
To obtain the degree with distinction, at least 75% is required for the dissertation.

H.18 Doctor of Philosophy [PhD] (Code 10260451)

Also consult General Regulations.

Note: All students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if (TNM 800) Applied research methodology 800 has been passed for the MPhysT degree.)

Specialisation: Physiotherapy

(a) **Requirements for admission**
Subject to the stipulations of General Regulations G.54 and G.62, a candidate must be in possession of a master's degree in Physiotherapy or an equivalent qualification for admission to doctoral studies. The PhD is conferred by virtue of a thesis (FTP 990) and, unless the Dean decides otherwise, an examination on the field of study covered by the thesis (FTP 900).

(b) A complete research protocol with regard to the thesis must be submitted to an evaluation committee and, if necessary, also to the Ethics Committee for approval. The evaluation committee is constituted by the head of department in conjunction with the Chairperson of the School and will consist of experienced persons in research in the proposed field of study of the candidate.
At least two committee members will be appointed from other national and/or international tertiary institutions. Due to financial constraints, technological aids will be used in the case of committee members from foreign universities, who will for this reason be unable to attend the meeting. The report of the evaluation committee will be made available to the candidate in writing.

(c) The thesis must deal with a problem from one or other field of Physiotherapy and must be proof to the promoter and examiners that it represents original research.

(d) The maximum period for the completion of a doctoral degree is five years. However, in accordance with the stipulations of General Regulation G. 32.4 and in extraordinary circumstances, the Chairperson of a School may, on the recommendation of the head of department, approve a fixed, limited extension of the period.

V. DEGREES IN DIETETICS

H.19 Bachelor of Dietetics [BDietetics] (Code 10139001)

Also consult General Regulations G.1 to G.15.

(a) **Requirements for admission**
A National Senior Certificate with admission for degree purposes with at least a rating code of 4 (50-59%) in Mathematics, Physical Science and English. Only selected candidates are admitted.

(b) **Nature and duration**
The programme extends over four academic years during which period a student receives practical training as a student dietician at an institution or institutions approved for this purpose by the University.

(c) **Pass requirements, internship training and grand total of credits required for degree purposes**

(i) Consult the general pass requirements of the School of Healthcare Sciences, for the calculation of the final mark in a module, the continuous assessment mark, obtaining a pass mark in modules with practical and/or clinical components, etc.

(ii) **Internship training (second semester of the final year of study):**
The three compulsory semester modules (CNT 480, MNX 480 and FSS 480) jointly form the internship training and must be taken simultaneously.

(iii) The grand total credits required to comply with degree requirements is at least **853**. (Five credits are allowed for examination purposes in the final year.)

(iv) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the following modules: CNT 411, 480 jointly, as well as MNX 411, 480 jointly, and VDS 322, VDB 321 and FSS 480 jointly.

(d) (i) After admission to the first year of study, each student in Dietetics must register as a student in Dietetics with the Health Professions Council of South Africa.

(ii) Students are required to complete at least four weeks applicable elective training (Code DTT 380) under the supervision of a dietician at an institution approved for this purpose by the University, after the first semester of the third year of study and prior to the commencement of the fourth year of study.

(e) **Second examination opportunity**
Consult the requirements for a second examination opportunity under the general pass requirements in the School of Healthcare Sciences.

(f) **Promotion to a subsequent year of study**

(i) Consult the general requirements for promotion to a subsequent year of study under the School of Healthcare Sciences.

(ii) Each paper (Paper 1 and 2) of the written examination for Medical nutrition therapy 323, 411 and 480 (MNX 323, 411, 480) as well as the practical examination for MNX 411 must be passed individually with a subminimum of 40%.

(iii) Each paper written for the second examination opportunity in Medical nutrition therapy 323, 411 and 480 (MNX 323, 411, 480) as well as the practical examination for MNX 411 (second examination opportunity) must be passed individually with a subminimum of 50%.

(g) **Exemption from the examination in (FAR) Pharmacology 381, 382**
Consult the stipulations set out under the School of Healthcare Sciences.

(h) **Curriculum**

(i) The table below comprises the fundamental, core and elective modules as well as credit value of each module prescribed for the curriculum, and an indication of the compulsory parallel modules and module prerequisites opposite each module.

(ii) In a module in the prerequisite column followed by the symbol GS, a joint mark of at least 40% must be obtained prior to admission to the module in the first column. A module without any symbol must, however, be passed with at least 50%. A parallel module must be followed prior to, or simultaneously with the module in the first column.

First year of study

First semester	**Parallel modules**	**Prerequisites**	**Credits**
Fundamental modules			
CMY 117 General chemistry 117	-	-	16
PHY 131 Physics 131	-	-	16
MLB 111 Molecular and cell biology 111	-	-	16
ELH 121 Academic English for Health Sciences 121	-	-	6
AIM 101 Academic information management 101	-	-	6
Core modules			
VDS 111 Food 111	-	-	10
DTT 110 Dietetic profession 110	-	-	8
		Total credits per semester	**78**
Second semester	**Parallel modules**	**Prerequisites**	**Credits**
Fundamental modules			
CMY 127 Chemistry 127	-	-	16
ELH 122 Academic English for Health Sciences 122	-	-	6
Core modules			
VDS 121 Food 121	-	-	10
DTT 121 Application of communication principles in dietetics	-	-	8
ANA 161 Anatomy of the torso 161	-	-	6
Elective modules			
SEP/ZUL Sepedi 110/isiZulu 110	-	-	12
		Total credits per semester	**58**
		Total credits first year	**136**

Second year of study

First semester	Parallel modules	Prerequisites	Credits
Fundamental modules			
MGW 112 People and their environment 112	-	-	6
FLG 211 Introductory and neuro-physiology 211	-	MLB 111 CMY 117 GS, 127 GS PHY 131 GS	12
FLG 212 Circulatory physiology 212	-	As for FLG 211	12
BCM 251 Introduction to proteins and enzymes 251	-	CMY 117 GS CMY127 GS MLB 111 GS	12
BCM 252 Carbohydrate metabolism 252	-	CMY 117 GS CMY 127 GS MLB 111 GS	12
GMB 252 Medical microbiology 252	FLG 211,221	-	6
Core modules			
VDS 210 Food 210	-	VDS 111	18
HNT 210 Human nutrition 210	FLG 211, 212 BCM 251 252	2nd-year status	27
		Total credits per semester	**105**
Second semester	**Parallel modules**	**Prerequisites**	**Credits**
Fundamental modules			
FLG 221 Lung and kidney physiology, acid-base equilibrium and temperature 221	FLG 222	FLG 211, 212	12
FLG 222 Digestion, endocrinology and reproductive systems 222	FLG 221	FLG 211, 212	12
BCM 261 Lipid and nitrogen metabolism 261	FLG 221, 222	BCM 251, 252 GS	12
BCM 262 Biochemical principles of nutrition and toxicology 262	-	BCM 251, 252 GS	12
GMB 253,254 Medical microbiology 253, 254	FLG 221, 222	FLG 211 GS, 212 GS	12
MRZ 310 Ethics and law in healthcare 310	-	2nd-year status	8
Core modules			
VDS 221 Food 221	-	VDS 210	18
HNT 220 Human nutrition 220	FLG 221, 222 BCM 261 262	FLG 211 GS, 212 GS BCM 251 252 HNT 210	24
DTT 222 Nutrition education 222	HNT 220	2nd-year status	18
		Total credits per semester	**128**
		Total credits second year (80/week)	**233**

Third year of study

First semester	Parallel modules	Prerequisites	Credits *
Fundamental modules			
FLG 312 Developmental physiology 312	-	FLG 221, 222	9
FLG 314 Immunology 314	-	BCM 251, 252, 261, 262 GS	9
FAR 381 Pharmacology 381	-	FLG 211, 212, 221, 222 GS	18
Core modules			
NTA 313 Nutritional assessment 313	-	3rd-year status	46
RCH 310 Research project 310	-	3rd-year status	20
DTT 310 Dietetic counselling 310	-	3rd-year status	20
MNX 310 Medical nutrition therapy 310	-	3rd-year status	9
CNT 310 Community nutrition 310	-	3rd-year status	12
		Total credits per semester	**143**
Second semester	**Parallel modules**	**Prerequisites**	**Credits ***
Fundamental modules			
FAR 382 Pharmacology 382	-	FAR 381, FLG 211, 212, 221, 222 GS	18
Core modules			
VDS 322 Food 322	-	VDS 210, VDS 221	31
VDB 321 Food service management 321	-		18
MNX 323 Medical nutrition therapy 323	-	3rd-year status	36
CNT 320 Community nutrition 320	-	3rd-year status	3
RCH 320 Research project 320	-	RCH 310	10
DTT 320 Clinic and discussion class 320	-	DTT 310	6
		Total credits per semester	**122**
		Total credits third year	**265**

Fourth year of study

First semester (10 weeks)	Parallel module	Prerequisite/s	Credits
CNT 411 Community nutrition 411	-	4th-year status	25
HNT 411 Human nutrition 411	-	4th-year status	18
MNX 411 Medical nutrition therapy411	-	4th-year status	35
RCH 410 Research project 410	-	RCH 320	7
DTT 411 Dietetics profession 411	-	4th-year status	5
PRS 461 Practice management 461	-	4th-year status	5
		Total credits per semester	**95**
Second semester (27 weeks)	**Parallel module**	**Prerequisite/s**	**Credits**
DTT 480 Dietetics profession 480	-	4th-year status	4
CNT 480 Community nutrition 480	-	CNT 411	35

MNX 480 Medical nutrition therapy 480	-	MNX 411	50
FSS 480 Food service management 480	-	VDS 322, VDB 321	35
		Total credits per semester	**124**
		Total credits fourth year	**219**

H.20 Bachelor of Science in Nutrition [BSc (Nutrition)] (Code 03134013)

Also consult General Regulations G.1 to G.15.

Note:
The BSc (Nutrition) degree programme is offered by the Faculty of Natural and Agricultural Sciences. Students are, however, enrolled for modules in both the Faculty of Natural and Agricultural Sciences and the Faculty of Health Sciences.

It is expected of students following the Public Health Nutrition option to undergo internship training. The module FNH 480 will be administered by the Department of Human Nutrition in the Faculty of Health Sciences.

A minimum of 636 credits are required to obtain the degree with the Option: Public Health Nutrition

A minimum of 625 credits are required to obtain the degree with the Option: Nutritional Science

Curriculum
First year of study

First semester	**Credits**
CMY 117 General chemistry 117	16
FSG 110 Physiology 110	6
LST 110 Language and study skills 110	6
MLB 111 Molecular and cell biology 111	16
PHY 131 General physics 131	16
VDS 111 Basic food preparation 111	6
WTW 134 Mathematics 134	16
Total credits per semester	**82**
Second semester	**Credits**
AIM 101 Academic information management 101*	6
BME 120 Biometry 120	16
CMY 127 General chemistry 127	16
FSG 120 Physiology 120	6
GTS 161 Introductory genetics 161	8
MBY 161 Introduction to microbiology 161	8
VDS 121 Basic food preparation 121	6
Total credits per semester	**66**
*Students may enrol for AIM 111 and AIM 121 instead of AIM 101 (the same content presented over 2 semesters)	
Total credits	**148**

Second year of study

First semester	Credits
BCM 251 Introduction to proteins and enzymes 251	12
BCM 252 Carbohydrate metabolism 252	12
FLG 211 Introductory and neurophysiology 211	12
FLG 212 Circulatory physiology 212	12
HNT 210 Human nutrition 210	27
Total credits per semester	**75**
Second semester	**Credits**
BCM 261 Lipid and nitrogen metabolism 261	12
BCM 262 Biochemical principles of nutrition and toxicology 262	12
FLG 221 Lung and renal physiology, acid-base balance and temperature 221	12
FLG 222 Digestion, endocrinology and reproductive systems 222	12
FST 260 Principles of food processing and preservation 260	12
HNT 220 Human nutrition 220	24
Total credits per semester	**84**
Total credits	**159**

Third year of study

First semester	Credits
FST 355 Chemistry of macro- and micro-nutrients 355	18
RCH 310 Research project 310	20
MRZ 310 Ethics and law in healthcare 310	8
NTA 313 Nutritional assessment 313	46

Option 1: Public Health Nutrition
Additional core module:
CNT 310 Community nutrition 310 (12)

Option 2: Nutritional Science
Additional core module:
BCM 356 Macromolecules of life: Structure function and bioinformatics 356 (18)

Total credits Option 1 = (104)
Total credits Option 2 = (110)

Second semester	Credits
RCH 320 Research project 320	10
VVW 364 Food composition and applied nutritional programmes 364	18
VDS 354 Food safety and hygiene 354	12
FNH 320 Food and nutrition security 320	8

Option 1: Public Health Nutrition
Additional core modules:
BCM 368 Molecular basis of diseases 368 (18)
CNT 320 Community nutrition 320 (3)
DTT 222 Nutrition education 222 (18)

Option 2: Nutritional Science
Additional core module:
BCM 368 Molecular basis of diseases 368 (18)

Total credits Option 1 = (87)
Total credits Option 2 = (66)

Total credits Option 1: Public Health Nutrition = 191
Total credits Option 2: Nutritional Science = 176

Fourth year of study

Option 1: Public Health Nutrition

First semester	**Credits**
HNT 411 Advanced human nutrition 411	18
RCH 410 Research project 410	7
CNT 411 Community nutrition 411	25
VDS 417 Consumer aspects of food 417	15
Total credits per semester	**58**
Second semester	**Credits**
FNH 421 International nutrition 421	20
FNH 480 Internship training in public health nutrition 480	60
Total credits per semester	**80**
Total credits for Option 1	**138**

Option 2: Nutritional Science

First semester	**Credits**
BME 210 Biometry 210	24
HNT 411 Advanced human nutrition 411	18
FST 400 Research methodology and seminar 400	20
FNH 400 Research project 400	20
Total credits per semester	**82**
Second semester	**Credits**
FNH 420 Advanced food, nutrition and health 420	20
FNH 400 Research project 400	20
FNH 421 International nutrition 421	20
Total credits per semester	**60**
Total credits for Option 2	**142**

Please note:
For further programme details and prerequisites for modules, please consult the Faculty of Natural and Agricultural Sciences yearbook on the web.
The prerequisites for some of the modules can be found in the alphabetical list of modules in this yearbook from pp 182–379.

H.21 Bachelor of Dietetics Honours [BDieteticsHons] Code (10240001)

Also consult General Regulations.

(a) **Requirements for admission**
A BDietetics degree.

(b) **Duration**
One year of full-time study or a maximum of 5 semesters of part-time study.

(c) **Curriculum**
A student chooses honours modules to a total of credits determined by the head of the Department of Human Nutrition, in addition to (NME 713, 714) Research methodology 713, 714 (or a similar module) and other subsidiary requirements, in consultation with the head of the division, and depending on the prerequisites and field of specialisation. Before the degree is conferred, (STK 110) Statistics 110 or a similar module must be passed.

(d) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained a weighted average of at least 75% in the programme.

H.22 Master of Dietetics [MDietetics]

Also consult General Regulations.

(a) **Admission requirements**
- (i) Subject to the stipulations of General Regulation G.62, the minimum requirement is a Bachelor's degree in Dietetics, as well as registration as a dietician with the Health Professions Council of South Africa.
- (ii) At least one year of full-time practical experience after acquiring the qualification in terms of which admission to master's degree study is sought.
- (iii) Students are selected on the grounds of previous academic achievement.

(b) **Duration**
A maximum period of four years.

(c) **Curriculum**

MDietetics by virtue of research (Code 10259001)
- (i) Students must hold a recognised honours degree in Dietetics/Human Nutrition.
- (ii) (TNM 800) Applied research methodology 800 or an equivalent module must be passed.
- (iii) The master's degree is conferred by virtue of a dissertation (DEK 890) on an approved topic based on research. A minimum pass mark of 50% is required for the dissertation.
- (iv) **Degree with distinction**
  The degree is conferred with distinction on a student who obtains at least 75% in the dissertation.

MDietetics by virtue of coursework (Code 10259002)
- (i) Students must hold a recognised Bachelor's degree in Dietetics/Human Nutrition.

(ii) (TNM 800) Applied research methodology 800 or an equivalent module must be passed satisfactorily.

(iii) For the coursework component, a student has to take compulsory modules to a total of 80 credits and choose modules (from elective modules) to a total of 120 credits. Any specific module is offered on condition that a minimum number of students is registered for the module, as determined by the Head of the department and the Dean. Students must consult the head of the division in order to compile a meaningful programme, as well as for information on the syllabi of the modules. The departmental postgraduate brochure should also be consulted.

Core modules	**Credits (80 credits required)**
DEK 880 Introduction to research and nutrition epidemiology 880	30
DEK 881 Nutritional assessment 881	30
DEK 882 Literature study 882	20
One topic of own choice from: Medical nutrition therapy/ Community nutrition/ Food service system management	
Elective modules (2 out of 8 options	**Credits (40 credits required)**
DEK 804 Immuno-nutrition 804	20
DEK 805 Sports nutrition 805	20
DEK 806 Nutrition counselling 806	20
DEK 807 Diet-related non-communicable lifestyle diseases 807	20
DEK 808 Nutrition support 808	20
DEK 883 Micro-nutrient malnutrition 883	20
DEK 884 Early childhood nutrition intervention 884	20
DEK 809 Nutri-genomics 809	20
	Credits
DEK 895 Essay: Dietetics 895	120

(iv) A final mark of at least 50% is required to pass in the coursework. A minimum of 50% is required to pass in the essay.

(v) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the coursework as well as a minimum of 75% in the essay.

H.23 Master of Science [MSc] in Applied Human Nutrition

Also consult General Regulations.

Note:
All MSc students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption may be granted if the module has already been passed for the BScHons degree.) However, MSc(Pharmacology) students must register for FAR 872 instead of TNM 800.

(a) **Admission requirements**
A recognised bachelor's degree in Medicine or in a supplementary health service profession; or a recognised and applicable bachelor honours degree of equivalent status as the BDietetics degree with regard to Physiology and Biochemistry.

(b) **Duration**
The maximum period for completion of the master's degree is four years. Subject to the stipulations of General Regulation G.32, the Chairperson of the School in question may, in consultation with the head of department, approve a fixed limited extension of the period on the grounds of extraordinary circumstances.

(c) **Curriculum**
TNM 800 Applied research methodology 800
DEK 884 Early childhood nutrition intervention 884
DEK 885 Human nutrition 885
DEK 886 Diet therapy 886
or
DEK 887 Applied nutrition 887
DEK 888 Two literature studies 888
DEK 895 Essay: Dietetics 895

(d) **Degree with distinction**
The MSc in Applied Human Nutrition is conferred with distinction on a student who obtains an average of at least 75% in all the abovementioned modules and for the essay.

H.24 Doctor of Philosophy [PhD]
(Code 10263061)

Also consult General Regulations.

Note:
All students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption will be granted if the module has been passed for the master's degree.)

Field of specialisation: Dietetics
DEK 900 Examination: Dietetics 900 and
DEK 990 Thesis: Dietetics 990.

H.25 Doctor of Science [DSc]
(Code 10262001)

The degree is conferred by virtue of publications.
Consult General Regulation G.56.

Degree code for Dietetics: 10262001
Degree code for other fields: 10262000

H.26 POSTGRADUATE DIPLOMAS IN THE SCHOOL OF HEALTHCARE SCIENCES

A. Postgraduate Diploma in Dietetics

Suspended until further notice.

B. Postgraduate Diploma in Vocational Rehabilitation [DVR] (Code 10220141)

(a) **Admission requirements**

(i) Subject to the stipulations of General Regulation G.62, the BOccTher degree or an equivalent qualification as well as registration as an Occupational Therapist with the Health Professions Council of South Africa is required for admission.

(ii) A student must fill at least a part-time post regarded by the head of department as appropriate for the field of study in question.

(b) **Duration**

At least one academic year, with presentation of the curriculum in four block weeks.

Note:

Commencement of studies must be discussed with the head of department, as the programme is presented every second year.

(c) **Curriculum**

The curriculum consists of a major subject and prerequisite subjects:

Major:	BRH 700 Vocational rehabilitation 700 (30 credits)
Prerequisite subjects:	GRA 701 Groups in occupational therapy C.S. 701 (30 credits)
	WSD 701 Work study 701 (30 credits)
	FIA 702 Financial administration 702 (30 credits)

(d) **Total number of credits required**

120

(e) **Examinations**

The sequence of the examinations in the prerequisite subjects will be determined by the head of the department, depending on the candidate's choice of a major subject.

(f) **Diploma with distinction**

The diploma is awarded with distinction to a student who has obtained an average of at least 75% in all the subjects.

C. Postgraduate Diploma in Interpersonal Communication and Group Techniques in Occupational Therapy (Code 10220131)

Discontinued until further notice.

D. Postgraduate Diploma in Group Activities [DGA] (Code 10220151)

(a) **Admission requirements**

(i) Subject to the stipulations of General Regulation G.62, the BOccTher degree or equivalent qualification as well as registration with the Health Professions Council of South Africa is required.

(ii) A student must fill at least a part-time post regarded by the head of department as appropriate for the field of study in question.

(b) **Duration**

At least one academic year, with presentation of the curriculum in question in four block weeks.

(c) **Curriculum**

(i) IKX 700 Interpersonal communication 700 (60 credits)

(ii) GRT 700 Group techniques in occupational therapy 700 (60 credits)

(d) **Total number of credits required**

120

(e) **Examinations**

(i) **Admission**

A continuous evaluation mark of at least 50% as well as satisfactory class attendance is required for admission to the examination.

(ii) **Pass requirement**

A subminimum of 50% must be obtained in both the written and the oral/ practical sections of the examination, with a final mark of at least 50% to pass.

(iii) **Second examination**

Students will be admitted to any second examination granted, six months after the original examination has taken place.

(f) **Diploma with distinction**

The diploma is issued with distinction to a student who obtains an average of at least 75% in all prescribed modules.

E. Postgraduate Diploma in the Handling of Childhood Disability [DHCD] (Code 10220171)

(a) **Admission requirements**

(i) A career-oriented bachelor's degree or an equivalent qualification which is regarded as applicable for admission to study by the head of department.

(ii) At least one year professional experience after the degree or equivalent qualification has been obtained, in an area that is regarded as applicable by the head of department.

(iii) A student must fill at least a part-time post regarded as appropriate by the head of department for the field of study in question.

(b) **Nature and duration**

The programme is presented in four block weeks during one academic year.

Note:
Commencement of studies must be cleared with the head of department as the programme is presented every second year.

(c) **Curriculum**

DCD 701 Normal development 701	(20 credits)
DCD 702 Identification 702	(30 credits)
DCD 703 Intervention for developmental disabilities 703	(35 credits)
DCD 704 Intervention for disabilities 704	(35 credits)

(d) **Total number of credits required**
120

(e) **Examinations**
Students are required to attend all lectures and practical work to the satisfaction of the head of department, for admission to the examination.
Examination in the written, oral and/or practical components of an examination must be passed with a final mark of at least 50%, to pass in the module in question.

(f) **Diploma with distinction**
The Diploma is awarded with distinction to a student who obtains an average of at least 75% in all the prescribed modules.

F. Postgraduate Diploma in Hand Therapy [DHT] (Code 10220161)

(a) **Admission requirements**

(i) Subject to the stipulations of General Regulation G.62, the BOccTher degree or an equivalent qualification, or the BPhysT degree or an equivalent qualification, is required for admission, as well as registration as an occupational therapist/physiotherapist with the Health Professions Council of South Africa.

(ii) A student must fill at least a part-time position that is deemed by the head of department to be appropriate for the field of study in question.

(b) **Duration**
The programme extends over one academic year and is presented in four blocks. (The number of blocks and duration may be adjusted after consultation between the lecturers and students.)
Note:
Commencement of studies must be discussed with the head of department, as the programme is presented every second year.

(c) **Curriculum**

AAN 701 Anatomy 701	(10 credits)
FIP 701 Physiology and patho-physiology 701	(10 credits)
BEX 701 Biomechanics and ergonomics 701	(10 credits)
KVH 701 Clinical skills in hand therapy 701	(40 credits)
ADM 701 Advanced clinical management in hand therapy 701	(50 credits)

(d) **Total number of credits required**
120

(e) **Examinations**

(i) **Pass requirements**

In the case of a written and oral/practical examination, a subminimum of 50% is required in each of the written as well as the oral/practical sections of the examination, with a final mark (continuous evaluation mark and examination mark) of at least 50% to pass in a module.

(ii) **Admission to the examination**

Students must have attended all practicals and submitted all assignments, failing which admission to the examination will not be granted.

(iii) **Second examination**

The dates for second examinations are arranged in consultation with the head of department, with the proviso that this will take place not later than the next examination period.

(f) **Diploma with distinction**

The diploma is awarded with distinction to a student who obtains at least 75% in (ADM 701) Advanced clinical management in hand therapy 701, and an average of at least 75% in the other modules.

SCHOOL OF HEALTH SYSTEMS AND PUBLIC HEALTH

I. POSTGRADUATE DEGREES

P.1 Bachelor of Science Honours [BScHons]

Also consult General Regulations.

(a) **Requirements for admission**

(i) A candidate must hold a bachelor's degree deemed acceptable by the head of department for the proposed field of study, or an equivalent qualification deemed acceptable by the Senate of the University for the proposed field of study, with at least one applicable biological subject as major subject.

(ii) Admission to the study for an honours degree is subject to the approval of the head of department: with the proviso that a candidate who has obtained an average of less than 60% in the modules of his or her major subject in the final year of the bachelor's degree study, may only be admitted with the **Dean's approval**, on the recommendation of the head of department. Additional requirements may be set by the head of department.

(iii) Admission requirements for the honours degree programme in the field of Biostatistics:
In order to be eligible to enrol for the BScHons in Biostatistics, candidates must have a bachelor's degree with Statistics as a major subject on 100, 200 and 300 level.

(iv) Admission requirements for the honours degree programme in the field of Aerospace Medicine:
- Candidates must have an MBChB or equivalent degree deemed acceptable by the head of the department.
- Candidates must be registered Aviation Medical Examiners.

(b) **Duration**

One year of full-time study (not applicable to the field of Aerospace Medicine)
Two years of part-time study

(c) **Curriculum**

(i) In the School of Health Systems and Public Health, the BScHons degree is conferred in the following fields of study:

Field of study	Degree code	Module code
Biostatistics	10244010	See par. (ii)
*Aerospace Medicine	10244021	LRG 700

(ii) **The following requirements are set:**
- Advanced instruction by means of self-tuition and four compulsory seminars of which at least one must be read to and defended before the department in question, on topics assigned to the student.
- Attendance at the compulsory faculty module (TNM 800) Applied research methodology 800.
- Taking part in a research project and presentation of an independent research report.
- Satisfactory attendance at a library-user course.

- *For the field of study Aerospace Medicine, the module, HME 772 Epidemiology primer also forms part of the curriculum and must be passed successfully.
- For the field of study, Biostatistics the following curriculum applies:

Module code	Module name	Credits
BOS 770	Principles of biostatistics 770	10
HME 770	Introduction to health measurement 770	10
PHM 770	Learning in public health 770	5
RAL 780	Applied regression analysis 780	20
MVA 710	Multivariate methods 1 710	20
MVA 720	Multivariate methods 2 720	20
TNM 800	Applied research methodology 800	5
BOS 774	Seminars in biostatistics 774	5
BOS 775	Biostatistics project 775	30
	Minimum total credits	125

(d) **Examinations**

(i) The honours examination consists of two written papers of three hours each (only one written paper in the case of Aerospace Medicine) as well as an oral examination of 30 minutes. One written examination in Biostatistics of three hours must be passed with at least 60%.

(ii) To comply with the pass requirements for the degree, a student must obtain a final mark of at least 50% in each division as indicated, as well as a pass mark of at least 50% for the essay/work assignment (if applicable). The stipulations regarding pass requirements for dissertations in General Regulation G.60.2.1.2(a) apply *mutatis mutandis* to essays.

(e) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the examination (written, oral, practical, etc.).

P.2 Master of Science [MSc]

Also consult General Regulations.

(a) **Admission requirements**

Subject to the stipulations of General Regulation G.62, a four-year bachelor's degree is required, or an honours degree, or in the case of a three-year bachelor's degree, also applicable practical (work) experience as prescribed by the University, plus any other additional work deemed necessary by the head of department: With the proviso that the head of department will have the discretion to decide whether the prerequisite qualification, or the qualification plus work experience would be acceptable for admission to the proposed field of study.

For admission to the field of study of Aerospace Medicine, an honours degree in Aerospace Medicine or another applicable honours degree is required.

In the case of the field of study Biostatistics, an applicable honours degree is required, with Statistics at honours level.

Note:
All MSc students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption may be granted if the module has already been passed for the BScHons degree.)

(b) **Duration**
The maximum period for completion of the master's degree is four years. Subject to the stipulations of General Regulation G.32, the Chairperson of the School may, in consultation with the head of department, approve a fixed limited extension of the period on the grounds of extraordinary circumstances.

(c) **Research protocol**
After registration, a student is required to submit a complete research protocol regarding the proposed dissertation to the Academic Advisory Committee and if necessary, also to the Ethics Committee for approval.

(d) **Fields of specialisation**
The MSc degree is conferred in the following fields of study in the School of Health Systems and Public Health:

Field of study	Degree code	Module codes	Dissertation code
Aerospace Medicine	10253251	See par. (e)	See par. (e)
Biostatistics (Public Health)	10253110	See par. (e)	See par. (e)
Clinical Epidemiology	10253331	See par. (e)	See par. (e)
Community Health	10253291	See par. (e)	See par. (e)
Epidemiology	10253321	See par. (e)	See par. (e)

(e) **Curriculum**

MSc in Epidemiology		
Module code	**Module**	**Credits**
	Fundamental modules:	
HMS 871	Scientific writing 871	5
PHM 870	Learning in public health 870	5
TNM 800	Applied research methodology 800	5
	Subtotal:	**15**
	Core modules for this specialisation:	
BOS 870	Biostatistics (Part 1) 870	10
BOS 871	Biostatistics (Part 2) 871	10
DEG 870	Principles of demography 870	5
EHM 872	Methods in exposure assessment 872	10
EPM 871	Epidemiological study design 871	5
EPM 874	Disease surveillance 874	5
HME 870	Introduction to health measurement 870	10
	Subtotal:	**55**

	Elective modules:	
BOS 873	Survival analysis 873	5
CDE 870	Principles of chronic disease epidemiology 870	5
EHM 871	Health risk assessment 871	10
EOM 870	Environmental epidemiology 870	10
EPM 870	Analytical epidemiology 870	5
EPM 873	Conducting surveys 873	10
HME 873	Monitoring and evaluation 873	15
QHR 870	Qualitative research methods 870	10
TQM 870	Principles of quality assurance 870	10
	Subtotal elective modules required:	**15**
	Minimum total coursework required:	**80**
EPI 890	Dissertation 890	**100**

MSc in Clinical Epidemiology		
Module code	**Module**	**Credits**
	Fundamental modules:	
HMS 871	Scientific writing 871	5
PHM 870	Learning in public health 870	5
TNM 800	Applied research methodology 800	5
	Subtotal:	**15**
	Core modules for this specialisation:	
BOS 870	Biostatistics (Part 1) 870	10
BOS 871	Biostatistics (Part 2) 871	10
CLI 870	Principles of clinical epidemiology 870	10
CLI 871	Evidence-based medicine 871	10
EPM 870	Analytical epidemiology 870	5
EPM 871	Epidemiological study design 871	5
HME 870	Introduction to health measurement 870	10
	Subtotal:	**60**
	Elective modules:	
BOS 873	Survival analysis 873	5
CDE 870	Principles of chronic disease epidemiology 870	5
EHM 871	Health risk assessment 871	10
EHM 872	Methods in exposure assessment 872	10
QHR 870	Qualitative reasearch methods 870	10
	Subtotal electives required:	**10**
	Minimum coursework required:	**80**
KEM 890	Dissertation 890	**100**

MSc in Community Health		
Module code	**Module**	**Credits**
	Fundamental modules:	
HMS 871	Scientific writing 871	5
PHM 870	Learning in public health 870	5
TNM 800	Applied research methodology 800	5
	Subtotal:	**15**

	Core modules for this specialisation:	
BOS 870	Biostatistics (Part 1) 870	10
HME 870	Introduction to health measurement 870	10
QHR 870	Qualitative research methods 870	10
	Subtotal:	**30**
	Elective modules for students interested in monitoring en evaluation	
BOS 871	Biostatistics (Part 2) 871	10
DEG 870	Principles of demography 870	5
EPM 873	Conducting surveys 873	10
EPM 874	Disease surveillance 874	5
HME 873	Monitoring and evaluation 873	15
	Elective modules for students interested in environmental health:	
EHM 871	Health risk assessment 871	10
EHM 872	Methods in exposure assessment 872	10
EHM 873	Environmental chemical pollution and health 873	5
EOH 871	Introduction to toxicology 871	5
EOM 870	Environmental epidemiology 870	10
EPM 871	Epidemiological study design 871	5
EPM 873	Conducting surveys 873	10
	Subtotal electives required:	**40**
	Minimum coursework required:	**80**
GGS 890	Dissertation 890	**100**

MSc in Aerospace Medicine		
Module code	**Module**	**Credits**
HMS 871	Scientific writing 871	5
PHM 870	Learning in public health 870	5
TNM 800	Applied research methodology 800	5
HME 872	Epidemiology primer 872	5
	Subtotal:	**20**
LRG 890	Dissertation 890	**240**

MSc in Biostatistics (Public Health)		
Module code	**Module**	**Credits**
	Fundamental modules:	
HMS 871	Scientific writing 871	5
PHM 870	Learning in public health 870	5
TNM 800	Applied research methodology 800	5
	Subtotal:	**15**
	Core modules for this specialisation:	
ACM 873	Individual studies in public health 873	30
BOS 873	Survival analysis 873	5
EPM 870	Analytical epidemiology 870	5
EPM 871	Epidemiologic study design 871	5
	Subtotal:	**45**

	Elective modules: Minimum of 20 credits to be obtained	
CDE 870	Principles of chronic disease epidemiology 870	5
DEG 870	Principles of demography 870	5
EPM 874	Disease surveillance 874	5
CLI 870	Principles of clinical epidemiology 870	10
CLI 871	Evidence-based medicine 871	10
	Subtotal elective modules required:	**20**
	Minimum total coursework required:	**80**
KGW 890	Dissertation 890	**100**

(f) **Pass requirements**

(i) The minimum pass mark for a module is 50%.

(ii) The prescribed modules must be passed independently of each other.

(iii) Second examinations in the modules are arranged by the head of department, within a period of time specified by him or her.

(iv) No second examinations will be granted in modules in which less than 40% has been obtained. Instead, the module must be repeated in its entirety.

(v) Only with the approval of the Chairperson of the School, on the recommendation of the head of department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).

(g) **Dissertation**

A dissertation on an approved research project must be passed in addition to the coursework. The stipulations of General Regulation G.57.3 regarding the preparation and submission of a dissertation apply; also the stipulations of General Regulation G.58 regarding the technical editing of the dissertation; and G.59 regarding the résumé of the dissertation.

A systematic literature review (Cochrane type) on an approved subject, which is undertaken in such a manner that bias in minimised, may be presented as an alternative to the **dissertation** for awarding the MSc in Clinical Epidemiology. It requires, inter alia, a research protocol with clearly formulated objectives and methods. Inclusion and exclusion methods for the study must be determined. Where applicable, the data must be summarised (meta analysis), with applicable statistical methods.

(h) **Evaluation and degree with distinction**

The average mark of the modules, weighted in respect of the number of credits acquired for each individual module, will be the final mark (%) of the coursework.

The degree is conferred with distinction on a student who obtains an average mark of at least 75% in the coursework, as well as a final mark of at least 75% for the dissertation.

P.3 Master of Medicine [MMed]

Regulations and curriculum

Please note:

All MMed students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily.

The MMed degree in the School of Health Systems and Public Health is conferred in the following field:

Public Health Medicine – [MMed (Public Health Medicine)]

(a) **Requirements for admission**
A prospective student for the MMed degree programme must be in possession of the MBChB degree of this University, or a qualification deemed by the University to be equivalent to the MBChB degree, for at least two years. In addition, such a student must be registered as a physician with the Health Professions Council of South Africa for at least one year.

(b) **Duration**
(i) The training for the degree extends over four years in accordance with the requirements of the Department of Public Health Medicine.
(ii) "Major subject" refers to the recognised field of study in Medicine in which the student specialises. The study of the major subject extends over four years, as prescribed by the Department of Public Health Medicine.

(c) **Each student must prove to the University that he or she**
(i) has successfully filled the required full-time training post for a period of four years according to the requirements of the Department of Public Health Medicine.
(ii) has completed the theoretical and practical applicable training as stipulated in Reg. P.3 (b) above; and
(iii) has passed the prescribed written, oral and/or practical university examinations or equivalent primary Colleges of Medicine of South Africa examinations.

(d) **Exemption**
(i) The Faculty Board may grant partial exemption from the training and work mentioned under par. (b) and (c)(i) and (ii) above on the grounds of comparable training and experience completed in another post or at another recognised institution – with the proviso that exemption from a maximum period of 18 months may be granted in the case of a four-year programme such as the MMed (Public Health Medicine) degree programme.
(ii) Exemption from a maximum of two years' Public Health Medicine training may be granted in the Department of Public Health Medicine in respect of the MMed(Public Health Medicine) degree, to a candidate already in possession of a Fellowship of the College of Public Health Medicine or a Fellowship of the College of Occupational Health Medicine of the Colleges of Medicine of South Africa. Such a candidate must have completed a period of at least 24 months of registrar training in Public Health Medicine or in Occupational Health Medicine that is recorded as such by the HPCSA.

(e) **Curriculum**
The curriculum consists of the major subject, its prerequisites and a dissertation GGS 890:
(i) **Public Health Medicine (Code 10250372)**
Major subject: GGS 800 Public health medicine 800
(ii) Prerequisites: ASW 800 Heath legislation, health policy and health systems (paper 1), social and behavioural science (paper 2) 800, EBD 800 Epidemiology, biostatistics and demography 800, ONO 800 Communicable

and non-communicable health-related conditions 800. The prerequisites can be passed either at the University or as primary examinations at the Colleges of Medicine of South Africa.

(iii) GGS 890 Dissertation 890
A dissertation on an approved research project must be passed in addition to the major subject and prerequisites. The stipulations of General Regulation G.57.3 regarding the preparation and submission of a dissertation apply, also the stipulations of General Regulation G.58 regarding the technical editing of the dissertation and G.59 regarding the résumé of the dissertation.

(f) **Examinations**

(i) The sequence of the examinations in the prerequisite subjects will be determined by the head of the department of Public Health Medicine.

(ii) The final exit examination for the major subject will be conducted by the Colleges of Medicine of South Africa. Only candidates who have met all the requirements for the MMed(Public Health Medicine) degree except for the major subject, i.e. passed all prerequisite subjects, completed all applicable training as prescribed in Reg. P.3(c) and completed the required research component for the degree in accordance with the Faculty Yearbook regulations, i.e. TNM 800 and the dissertation (GGS 890) will be allowed to write the Colleges of Medicine of South Africa exit examination.

(iii) A minimum final mark of 50% is required to pass in a subject.

(iv) A student is not admitted to the examination in a prerequisite subject (second examinations excluded) more than twice, nor is he or she admitted to the examination in the major subject more than twice.

(g) **Second examinations**

Second examinations in the prerequisite subjects will only be held after at least six months have elapsed since the conclusion of the examination in which the student had failed.

(h) **Conferment of the degree/Degree with distinction**

The degree is conferred at the end of the prescribed training period, i.e. four years. The degree is conferred with distinction on a student who has obtained a final mark of at least 75% in his or her major subject.

(i) **General**

Registrars in Public Health Medicine are expected to undergo rotational attachment to a number of designated health service organisations during their period of training.

P.4 Master of Public Health [MPH] (Code 10256501)

Also consult General Regulations

(a) **Admission requirements**

A candidate for admission to the study for the Master's degree in Public Health must be in possession of:

- a four-year bachelor's degree; plus at least two years' applicable practical (work) experience; or
- an honours degree; or
- a three-year bachelor's degree plus at least five years' applicable practical (work) experience.

(b) **Registration as a special student in the Faculty in order to pass a status examination**

(i) Candidates will be required to first register as a special student in the Faculty, in order to pass in a status examination, in the following instances:
- A three-year bachelor's degree with less than five years' applicable practical (work) experience; or
- A four-year bachelor's degree with less than two years' applicable practical (work) experience; or
- Any applicant in possession of an approved bachelor's degree, who the School's Selection Committee deems fit to register as a special student.

NB:
- In accordance with the criteria of the Senate of the University, the applications for admission of all such candidates must, apart from any Faculty requirements, also be submitted to the University Senate for approval.
- All candidates accepted for postgraduate study (MPH or the Postgraduate Diplomas) must be in possession of a **National Senior Certificate with admission for degree purposes**.

(ii) **Pass requirements for the status examination**
- At least 60% must be obtained in the status examination.
- The status examination will be written in June.

(iii) The application of a student who has passed the status examination must be submitted to the Senate of the University for approval. Successful students may then enrol for the degree programme in the following academic year.

(c) **Other selection criteria**

(Each on a scale of one to five.)
- Academic merit
- National/International need for public health
- Under-represented groups in public health
- Public health related employment
- Track record – e.g. employment, academic, community-building, etc.

(d) **Duration of programme**

(i) Two years of full-time, or a maximum of four years part-time study.

(ii) In exceptional cases the Dean, on the recommendation of the Chairperson: School of Health Systems and Public Health, may allow a student to complete the degree programme in one year.

(e) **Curriculum and general information**

(i) The MPH programme comprises the following three components:
- Core modules
- Track modules (compulsory and elective)
- Mini-dissertation

(ii) **The credits are divided between the different components of the MPH as follows:**

MPH component	**Credits**	**%**
Core modules	65	32,5
Track modules (compulsory and elective)	70	35
Mini-dissertation	60	30
TNM 800	5	2,5
Total	200	100

(iii) **Core modules**

Module code	Module name	Credits
BOS 870	Biostatistics 870 (Week 1 and 2)*	10
CDC 870	Introduction to disease control 870	5
DEG 870	Principles of demography 870	5
EHM 870	Basis of environmental health 870	5
HCM 870	Introduction to health management 870 (Week I and 2*)	10
HET 870	Public health, ethics and human rights 870	5
HME 870	Introduction to health measurement 870 (Week 1 and 2*)	10
HMS 871	Scientific Writing 871	5
SCM 870	Social determinants of health and primary healthcare 870	5
PHM 870	Learning in public health 870	5
	Total	65

*Week 1 and 2 form one module of 10 credits, and cannot be taken separately.

(iv) **Track modules (compulsory and elective)**

The following areas are available:

- Biostatistics and epidemiology
- Biostatistics and epidemiology – Monitoring and evaluation
- Disease control
- Disease control – field Epidemiology and Laboratory Training programme
- Disease control – Public Health Laboratory programme
- Environmental and occupational health
- Environmental and occupational health – Occupational hygiene
- Environmental and occupational health – Aerospace medicine
- Health policy and management\
- Health promotion

Information regarding the content of each track is available on the website of the School of Health Systems and Public Health (http://shsph.up.ac.za)

(f) **Mini-dissertation**

(i) The MPH degree consists of coursework (70%) and a research component (30%). The mini-dissertation contributes 60 credits (the equivalent of 600 notional hours of learning according to SAQA criteria).

(ii) The expected outcome of the mini-dissertation is that the student will be able to identify and investigate health and health systems problems in a comprehensive manner, and that he or she will be able to (i.e. begin to) formulate appropriate interventions.

(iii) The student's research protocol is submitted for approval to the MPH track head, prior to submission to the Health Sciences Research Ethics Committee.

(g) **Examinations and pass requirements**

(i) **Examination of modules**

(aa) Each module has its individual (own) evaluation, which may consist of more than one mode of evaluation. **To pass in a module, a student must obtain a minimum pass mark of 50%**.

(bb) If a student fails a module but obtains 40% to 49%, a second examination in the module in question must be written. The student

must arrange with the lecturer who presents the module, in consultation with the Academic Programme Coordinator, in this regard.

(cc) If a student fails a module but obtains a mark of less than 40%, the module must be repeated in full in the following year.

(dd) If a core module is still not passed after two attempts, the student will not be allowed to continue with the MPH programme.

(ee) A compulsory module in the student's track can only be repeated once. If it is not passed after the second attempt, the student will be requested to change the track. If the student fails after two attempts in the second track, he or she will not be allowed to continue with the MPH programme.

(ff) If an elective module is failed after two attempts, the student will have to select another elective module.

(ii) **Final examinations for the MPH**

(aa) Other than summarising the total of marks obtained for modules, the MPH has an additional evaluation of its coursework, consisting of two comprehensive examinations. The decision as to whether these examinations will be written or conducted orally, lies with the examiners.

(bb) The first examination will take place after completion of all the compulsory core modules and covers basic knowledge in Public Health. This examination will consist of two papers, each two hours long. Paper I will cover material learned during the core modules HME 870, DEG 870 and BOS 870. Paper II will cover material learned during the remaining core modules with the exception of material learned during the Scientific writing 871 module (HMS 871).

(cc) The second examination will take place at the end of the MPH programme and covers the modules taken as part of a track.

(dd) The minimum pass mark for each examination is 50% and for the first core examination a subminimum of 40% is required for each of the two papers The final mark for the first core examination will be a simple average of the percentage marks obtained in each of the two constituent papers. If a student fails either of the examinations, he or she will be required to rewrite in the next examination period. If a student fails for the second time he/she may not continue with the MPH programme.

(iii) **Examination of mini-dissertation**

The mini-dissertation must be passed independently with at least 50%.

(h) **Concurrent registration for two study programmes**

(i) In accordance with the stipulations of General Regulation G.6, which is *mutatis mutandis* applicable in the case of postgraduate diploma study, the permission of the Dean is required for concurrent registration, subject to the regulations applicable to the fields of study in question and to any other stipulations the Dean may prescribe. Such a concession may be withdrawn by the Dean if the student does not perform satisfactorily – all assignments and coursework must be completed on time. Concurrent registration will not be accepted as a reason for poor performance or not meeting deadlines for both study programmes.

(ii) In the case of registering concurrently for two study programmes in the School of Health Systems and Public Health and elsewhere, students must obtain the written consent of both the coordinator of their current programme

and the coordinator of the second programme (or the track co-ordinator in the case of the MPH), and submit it with a substantiating letter to the School's Academic Programme Committee, for recommendation by the Chairperson of the School, after which the application is submitted to the Dean for approval.

(iii) The School of Health Systems and Public Health states that concurrent registration for two study programmes **is a privilege and not a right.** Concurrent registration must be applied for annually and is granted based on academic performance in the primary degree/diploma programme.

(iv) If the current field of study is a master's degree, then the second field of study can be a postgraduate diploma.

(v) If the current field of study is a postgraduate diploma, then the second field of study can be another postgraduate diploma.

(i) **Degree with distinction**
The degree will be conferred with distinction on a student who has a final mark of at least 75% for the mini-dissertation and an average of at least 75% for the combination of coursework and examinations.

P.5 Doctor of Philosophy [PhD]

Also consult General Regulations.

Please note: All PhD students must register for, and attend TNM 800 Applied research methodology 800 satisfactorily. (Exemption will be granted if Applied research methodology 800 had been passed for the master's degree.)

(a) Subject to the stipulations of General Regulations G.45 and G.62, a candidate will only be admitted to the studies for the doctoral degree if he or she holds a MBChB or a master's degree or has been granted the equivalent status.

(b) **A PhD student must**

(i) under the supervision of a supervisor at the University or another institution approved by the Senate, undertake original research to the satisfaction of the examiners; and

(ii) submit a thesis which will prove, according to the opinion of the examiners, that he or she has, on the grounds of independent critical judgement, made a distinct contribution towards the enrichment of knowledge in the chosen subject.

(c) A student for the PhD degree must be registered for the doctoral degree study at the University for at least one academic year before the degree can be conferred.

(d) The PhD degree is conferred by virtue of a thesis and, should the Dean deem it necessary, an examination on the field of study of the thesis.

(e) A complete research protocol regarding the proposed thesis (as well as the curriculum vitae of the candidate) must be submitted to the Academic Advisory Committee and, if necessary, also to the Ethics Committee for approval. The thesis must deal with a problem from a field of study in Health Systems and Public Health and must satisfy the supervisor and the examiners that it represents advanced original research and/or creative work in the field of Health Systems and Public Health. It must give an overview of the literature that was used on the topic and

contain a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached.

(f) The doctoral examination will be oral and/or written and will deal with the content of the thesis as well as those subdivisions of the field of study on which the thesis is based, if requested.

(g) The maximum period for completion of a doctoral degree is five years. Under exceptional circumstances, a student may apply to the head of the department, in writing, for a fixed, limited extension of this period.

(h) The following additional requirements are set in respect of the PhD degree completed in the School of Health Systems and Public Health:
   (i) All PhD students in the School are required to register as a Health Sciences Special (Postgraduate) student for the first year. This will allow the student time to complete any additional coursework the head of department and/or supervisor may require to be completed and which is deemed applicable to the particular research field, and to prepare a pre-final research protocol.
   (ii) A review will be done by a school committee and only students who have made adequate progress will be allowed to register as a PhD student in the following year.

(i) The PhD degree can be obtained in the following fields of study in the School of Health Systems and Public Health:

Field of study	Degree code	Examination code	Thesis code
Aerospace Medicine	10263071	LRG 900	LRG 990
Community Health	10260401	GGS 900	GGS 990
Environmental Health	10260405	OGH 900	OGH 990
Epidemiology	10260404	EPI 900	EPI 990
Health Systems	10260402	GSL 900	GSL 990
Public Health	10260403	OGD 900	OGD 990

II. POSTGRADUATE DIPLOMAS

P.6

A. Postgraduate Diploma in Tropical Medicine and Health [DTM&H] (Code 10220063)

B. Postgraduate Diploma in Public Health [DPH] (Code 10220093)

C. Postgraduate Diploma in Public Health Medicine [DipPHM] (Code 10220094)

D. Postgraduate Diploma in Health Systems Management [DHSM] (Code 10220073)
Option 1: Executive Leadership (Code 10220075)
Option 2: General Operations (Code 10220076)

E. Postgraduate Diploma in Occupational Medicine and Health [DOMH] (Code 10220083)

F. Postgraduate Diploma in Occupational Health [DipOH] (Code 10220084)

G. Postgraduate Diploma in Clinical Evidence and Healthcare [DipCEH] * (Code 10220074)
***This Diploma has been suspended.**

Also consult General Regulations.

Requirements and regulations common to all these diplomas

(a) **Requirements for admission**

For admission to the Postgraduate Diplomas in Tropical Medicine and Health, Occupational Medicine and Health, and Public Health Medicine, the MBChB degree or an equivalent qualification with a completed internship of at least one year, plus professional (work) experience (post-internship) of at least one year that is regarded as applicable by the Head of the Department of Public Health Medicine or the Chairperson of the School of Health Systems and Public Health, is required.

For admission to the non-medical Postgraduate Diplomas in Health Systems Management and in Public Health, the following is required:

- A four-year bachelor's degree, plus at least two years' applicable work experience; **or**
- A three-year bachelor's degree plus at least five years' applicable work experience.

(b) **Duration**

The diploma programmes can only be taken on a part-time basis and the training will extend over at least two academic years, except for the DTM&H which will extend over at least one academic year. Students may, with the approval of the Head of the Department of Public Health Medicine or the Chairperson of the School of Health Systems and Public Health, register simultaneously for Part I and Part II of a diploma which extends over two academic years.

(c) **Registration as a special student in the Faculty in order to pass a status examination**

The stipulations of Reg. P.4(b)(i) (with relevant footnote), and (ii)-(iii) apply *mutatis mutandis* to the postgraduate diplomas in question.

(d) **Other selection criteria**

The stipulations of Reg. P.4(c) apply *mutatis mutandis* to the postgraduate diplomas in question.

(e) **Concurrent registration for two study programmes**

The stipulations of Reg. P.4(h)(i)-(v) apply *mutatis mutandis* to the postgraduate diplomas in question.

(f) **Curriculum**

A curriculum comprises prescribed modules and/or a research report compiled in conjunction with the head of department or Chairperson of the School. Details regarding the curriculum and syllabuses are published in a brochure which is available on request from the department or School.

(g) **Examinations**

Students must attend all lectures and practical classes to the satisfaction of the head of department or the Chairperson of the School before they will be admitted to the examinations. Written, oral and/or practical examinations must be passed in all the modules.

(h) **Pass requirements**

(i) The minimum pass mark for prescribed modules is 50%.

(ii) Only with the approval of the Chairperson of the School, on the recommendation of the head of department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).

(iii) A second examination in a module is arranged in conjunction with the head of department.

(i) **Diploma with distinction**

A diploma is awarded with distinction to a student who has obtained an average of at least 75% in all the modules.

SCHOOL OF MEDICINE

DEGREES AND POSTGRADUATE DIPLOMAS IN MEDICINE

I. UNDERGRADUATE AND POSTGRADUATE DEGREES

M.1 Bachelor of Medicine and Surgery [MBChB] (Code 10130001)

Also consult General Regulations.

Note:

1. A National Senior Certificate with admission for degree purposes is required, with Mathematics, Physical Science, and English (at Home Language level or First Additional Language level) with minimum pass marks in these subjects as required according to the different categories of the selection procedure.
2. A selection of candidates takes place (consult General Information).
3. Each student in Medicine must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Medicine, immediately after admission to the first year of study.
4. After obtaining the degree, a student must register with the Health Professions Council of South Africa as an intern, and complete at least one year of training at an institution approved by the abovementioned Council for this purpose. (Students who qualify after July 2006, will have a compulsory two-year internship.) After this, he or she must register with the Council as a physician and complete one year of community service before he or she may work in private practice.
5. Total number of credits required for degree purposes (AIM and ELH modules excluded):
   - Fundamental modules: 246
   - Core modules: 905
   - Elective modules: 59

   Total: 1 210

(a) **Duration and programme design**

Six years of full-time study. The integrated outcomes-based problem-oriented programme consists of theoretical blocks, special activities (SAs) and clinical rotations. During the final 18 months, referred to as the Student Intern Complex (SIC), all the programme activities take place in the clinical settings.

(b) **Passing a block/special activity in the MBChB degree programme**

(i) A **block mark** is calculated from the continuous evaluation opportunities during the course of the presentation of the block or special activity in question. These evaluations shall include one or more of the following:
   - (aa) Evaluations regarding theoretical knowledge.
   - (bb) Evaluations regarding clinical knowledge and skills.
   - (cc) Compulsory attendance of, and active participation in prescribed activities.
   - (dd) A final comprehensive block test moderated by external examiners.

(ii) Students may exercise the option to have the block mark at the **end of the year** validated as the **final block mark** for the block in question (i.e. they are exempted from the block examination for this block), provided that they comply with the following requirements:
   - (aa) The abovementioned block mark is more than 60%.

(bb) Proven attendance of all applicable block-specific activities, namely:
- All tests/continuous evaluations.
- All practicals and morning ward-round activities.
- All relevant skills laboratory activities.
- All relevant community-based education activities.
- All clinical rotations.

(cc) A pass mark in the clinical rotation test.

(dd) Attendance of the block in question from day 1.

(ee) No conviction by the Faculty Preliminary Disciplinary Committee (Student offences), of any form of dishonesty or fraud.

(iii) A **block examination** is granted to all registered students regardless of the block mark.

(iv) The **final block mark** is calculated from the block examination mark and the block mark (continuous evaluation) in a 50:50 or 60:40 ratio, depending on the year of study and/or block-specific regulations. The formula according to which the final block mark is calculated will be set out in the block book (study guide) and communicated to students at the commencement of the programme.

(v) **In order to pass** in a block/special activity in which a clinical component is included, a **subminimum of 50% is required for the block examination mark,** implying that a student who obtains a block mark of more than 50% and a block examination mark of less than 50%, with a final block mark of more than 50%, fails the block and will thus be admitted to a second examination.

(vi) Regarding the **Longitudinal Clinic Attachment Programme (L-CAS activities)** of an academic year (module code LCP 180, 280, 380, 480 and 580), students must hand in a portfolio at the end of the academic year which will be assessed. Satisfactory attendance will furthermore be required regarding this module to pass the year.

(vii) A **second examination** in a block will be granted to all students who fail the block.

(viii) As a rule, the **second examination** in question will take place in November/ December of the same year, or in January of the following year. However, this regulation is not applicable to the end of the first semester of MBChB V (refer par (o) (iii)). A minimum of 50% is required in order to pass in the second examination.

(ix) An **aegrotat or extraordinary examination** granted to a student who could not participate in the block examination due to illness or other acceptable reasons, will take place during the second examination period. Students must apply formally for such an examination, and admission to the examination is approved by the Chairperson of the School or his/her authorised person. Where applicable, the Chairperson of the School may first require a recommendation from the Faculty Health Committee before approving an application for admission to an aegrotat.

All modalities of a final examination must be completed jointly as an aegrotat or an extraordinary examination, even if part of it has already been completed as part of the examination sat in the previous examination period. The **final block mark** is calculated from the marks of all the divisions/modalities of the aegrotat or extraordinary examination and the block mark in question (continuous evaluation mark).

The same criteria set for a final mark in a block, are applicable in this case.

Note: No special **dates** will be arranged for an aegrotat/extraordinary examination. These examinations will only take place on the scheduled dates for regular first/second examinations.

(x) Aegrotat/extraordinary **tests** are not allowed for the MBChB degree programme. Students who have acceptable reasons for being absent from tests, will of course have no block mark, and a pass in the block(s) will depend totally upon the block examination mark.

(c) **Repeating blocks and/or special activities (and thus the year of study) in the MBChB degree programme**

A student who has failed one or more blocks and/or special activities in a year of study, must repeat the year of study. However, such a student will be exempted from the blocks and/or special activities passed in the previous (failed) year.

The Examination Moderating Meeting and/or the Chairperson of the School of Medicine, reserves the right to only award a pass mark to the said blocks and/or special activities should the student comply with the following requirements in respect of the blocks and/or special activities in question:

- That the mark awarded to the said block or special activity was not awarded on the grounds of condonement.
- That the student's attendance of the said block and/or special activity was satisfactory, that he or she participated in all other activities and complied with all other requirements.

(d) **Examinations and pass requirements**

In accordance with the stipulations of General Regulation G.10(2), no minimum year or semester mark is required for admission to the examination: Provided that the different year and semester modules in a School need not be handled in the same manner, although a considerable degree of uniformity is advisable.

The stipulation that students be admitted to the examination without reservation, is supported. A **final block mark** in the relevant module is, however, calculated from the block examination mark **as well as** the block mark compiled from **continuous evaluation** during the presentation of the module (i.e. the semester, year, module or block mark). The latter is calculated from the marks obtained in one or more of the undermentioned:

(i) Evaluations of theoretical knowledge.
(ii) Evaluations of clinical knowledge and skills.
(iii) Compulsory attendance of and participation in prescribed activities.

The contribution of each modality in the calculation of the abovementioned mark is set out in the regulations and published in the study guides. The details are explained in detail to the students concerned before commencement of the modules. Likewise, also the weight allocated to the abovementioned marks and the various examination marks when calculating the final block mark awarded to the student, which varies between 50:50 and 40:60 according to the field of study, year of study and programme-specific compilation.

The importance of continuous evaluation in the assessment of students is non-negotiable, and therefore the marks awarded in these type of evaluations will form part of the final pass mark of all modules/subjects.

The pass mark for essays is at least 50%. The stipulations of General Regulation G.60.2.1.2(a) regarding requirements for dissertations apply *mutatis mutandis* to essays.

For requirements regarding the abovementioned, consult Reg. M.1(b), as well as the study manual of a given block.

(e) **Academic exclusion from further study**

(i) In accordance with the stipulations of General Regulation G.3.2(b), re-registration of a student is permitted only if the student completes the degree programme for which he or she is registered within the prescribed minimum period of study plus two years.

(ii) In the case of the MBChB degree offerred by the School of Medicine, a student who fails a year of study for a second time, must apply, in writing, to the Readmission Committee of the School chaired by the Chairperson of the School, for readmission to the programme.

(iii) The Committee in question will take all factors into consideration and its decision and conditions will be final.

(f) **First year of study**

(i) **Curriculum**

First semester		Module code	Credits
	Fundamental modules		
CMY	Chemistry 151***	CMY 151	16
FIL	Science and world views 155	FIL 155	6
MGW	People and their environment 112	MGW 112	6
MLB	Molecular and cell biology 111***	MLB 111	16
MTL	Medical terminology 180	MTL 180	12
PHY	General physics 131***	PHY 131	16
AIM	Academic information management 101*	AIM 101	6
ELH	Academic English for Health Sciences**	ELH 111	6
Total credits per semester (AIM and ELH modules excluded):			**72**

*Consult foregoing par. 5 under GENERAL ACADEMIC INFORMATION in this publication.

**Consult foregoing par. 4 under GENERAL ACADEMIC INFORMATION in this publication.

***Consult foregoing par. 1.2 under GENERAL ACADEMIC INFORMATION in this publication, for the minimum achievement required in certain matriculation subjects in the final Grade 12 examination, with a view to admission to these modules.

NB:

The first semester of the syllabus for the year module PHY 181, is identical to that of PHY 131 mentioned above.

(ii) **Failed candidates/Admission to the second semester of MBChB I**

Selected first-year students, who have passed in sufficient prescribed first-semester modules at 100 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second semester of the first year of study.

During the second semester, the students may be admitted to an examination on an anti-semester basis in the first-semester modules still outstanding, if this can be accommodated in the timetables.

In the School of Medicine, a student may not repeat first-semester modules comprising more than 8 lectures per week on an anti-semester basis in the second semester.

Second semester		Module code	Credits
	Fundamental modules		
Block 1	Molecule to organism 121	BOK 121	40
SA 1	Orientation 120	GNK 120	5
SA 3	People and their environment 127	GNK 127	10

SA 14	Introduction to clinical pharmacotherapy 128	GNK 128	10
ELH	Academic English for Health Sciences 112*	ELH 112	6
LCP	Longitudinal clinic attachment programme 180	LCP 180	-
	Elective module		
SSM	Special study module 121 (Linked with BOK 121)	SMO 121	5
	Total credits per semester (ELH module excluded):		**70**
	Total credits first year of study (AIM and ELH modules excluded):		**142**

*Consult foregoing par. 4 under GENERAL ACADEMIC INFORMATION in this publication.

(iii) **Block examinations and second examinations**
Consult Reg. M.1(b).

(iv) **Failed candidates/Admission to MBChB II**

(aa) A student must pass all the modules prescribed for MBChB I, for admission to MBChB II.

(bb) Students who take the maximum allowable number of first-semester modules on an anti-semester basis in the second semester, must pass a second examination in the modules in question prior to commencement of the second year of study. Should a student pass in these modules, the fact that the modules were failed in the first semester, will not affect his or her admission to MBChB II.

(cc) None of the second-semester blocks and special activities of MBChB I are presented on an anti-semester basis.

(dd) ALL students who fail the first year of study for the MBChB degree, forfeit their selection and must apply, in writing, for readmission to the MBChB degree programme. Also consult Reg.M.1(c) regarding students who fail certain blocks in a year and therefore the year of study.

(g) **Admission to the second year of study**
A student must pass all the modules prescribed for the first year of study before admission to the second year of study.

(h) **Second year of study**

(i) **Curriculum**

First semester		**Module code**	**Credits**
	Fundamental modules		
Block 2	People and their environment 284	BOK 284	31
Block 3	Homeostasis 280	BOK 280	42
SA 4	Anatomy (Dissection) 288	GNK 288	37
GPS	Generic procedural skills 280	GPS 280	2
LCP	Longitudinal clinic attachment programme 280	LCP 280	-
	Elective module		
SSM	Special study module 211	SMO 211	5
	Total credits per semester:		**117**

Important:
Students have three assessment opportunities, namely a block test, first examination and second examination in order to pass GPS Generic procedural skills 280. Although a student will not be held back if GPS 280 is failed, the module in question **must** be passed by the end of the first semester of the third year of study, failing which the student **will be held back** in the third year of study.

Second semester		**Module code**	**Credits**
LCP	**Fundamental module** Longitudinal clinic attachment programme 280	LCP 280	-
Block 4 SA 5 SA 9	**Core modules** Pathological conditions 285 Infectious diseases 287 Introduction to clinical medicine 283 Basic emergency care 286	 BOK 285 BOK 287 GNK 283 GNK 286	 22 23 10 5
SSM	**Elective module** Special study module 281 (Linked with BOK 285 and 287)	SMO 281	5
		Total credits per semester:	**65**
		Total credits second year of study:	**180**

(ii) **Block examinations and second examinations**
Consult Reg. M.1(b).

(iii) **Failed candidates/Admission to MBChB III**

(aa) Students must pass in all the prescribed modules for MBChB II for admission to MBChB III.

(bb) Students who fail **one block,** may repeat the MBChB II year* without forfeiting his/her selection.

(cc) Students who fail **two blocks,** but who have not failed a block before, may repeat the MBChB II year*, without forfeiting his/her selection.

(dd) Students who fail **three or more blocks,** are automatically excluded from the programme.

(ee) Students who have failed MBChB I and subsequently also MBChB II (notwithstanding the number of blocks involved), are automatically excluded from the programme.

(ff) Students who are excluded from the programme, will again be subjected to selection with a view to readmission to MBChB II.

*Consult Reg. M.1(c) regarding students who fail certain blocks and therefore have to repeat the year of study.

(i) **Admission to the third year of study**
A student must pass all the modules prescribed for the second year of study for admission to the third year of study.

(j) **Third year of study**

(i) **Curriculum**

First semester		**Module code**	**Credits**
GPS LCP	**Fundamental modules** Generic prosedural skills 380 Longitudinal clinic attachment programme 380	 GPS 380 LCP 380	 5 -

	Core modules		
Block 6	Heart and blood vessels 381	GNK 381	25
Block 7	Lungs and chest 383	GNK 383	20
Block 8	Abdomen and mamma 380	BOK 380	50
SA 12	Haematological malignancies 386	GNK 386	5
	Elective modules		
SSM	Special study module 311	SMO 311	5
SSM	Special study module 380 (Linked with BOK 380)	SMO 380	5
		Total credits per semester:	**115**
Second semester		**Module code**	**Credits**
	Fundamental module		
LCP	Longitudinal clinic attachment programme 380	LCP 380	-
	Core modules		
Block 9	Pregnancy and neonatology 382	BOK 382	55
SA 10	Elective 488	GNK 488	23
	Elective module		
SSM	Special study module 382 (Linked with BOK 382)	SMO 382	5
		Total credits per semester:	**83**
		Total credits third year:	**198**

(ii) **Block examinations and second examinations**
Consult Reg. M.1.(b).

(iii) **Failed candidate**
A student who fails any given block (i.e. examination modules), fails and will be required to repeat the third year of study. Consult also Reg.M.1(c) regarding students who fail some blocks, and thus the year of study.

(k) **Admission to the fourth year of study:**
A student must pass all the modules prescribed for the third year of study for admission to the fourth year of study. Consult also Reg. M.1(c) regarding students who fail certain blocks in a year, and therefore the year of study.

(l) **Fourth year of study**

(i) **Curriculum**

First and second semester		**Module code**	**Credits**
	Fundamental module		
LCP	Longitudinal clinic attachment programme 480	LCP 480	-
	Core modules		
Block 10	Disorders of childhood 481 Paediatrics morning rotation	GNK 481	31
Block 11	Genital and urinary tract diseases 480 Gynaecology morning rotation Internal medicine morning rotation Urology morning rotation	BOK 480	62
Block 12	Head and neck 485 Otorhinolaryngology morning rotation	GNK 485	33

	Ophthalmology morning rotation		
Block 13	Nervous system 482	BOK 482	28
	Neurology morning rotation		
Block 14	Musculoskeletal conditions 483	GNK 483	28
	Orthopaedics morning rotation		
SA 7	Endocrinology 484	GNK 484	6
SA 8	Ageing 486	GNK 486	8
SA 11	Skin 487*	GNK 487	5
	Elective modules		
SA 6	Preceptorship 385	GNK 385	10
SSM	Special study module 411	SMO 411	2
		Total credits fourth year:	**211**

*SA 11 (GNK 487) Skin 487 is preceded by one study week named SA 11a in the 4th year, 2nd semester.

Note: Marks obtained in the morning rotations are taken into account with the relevant block marks.

(ii) **Block examinations and second examinations**
As set out in Reg. M. 1(b).

(iii) **Failed candidates**
A student who fails any given block (i.e. examination modules), fails and will be required to repeat the fourth year of study. Consult also Reg. M.1(c) regarding students who fail some blocks, and thus the year of study.

(m) **Admission to the fifth year of study:**
A student must pass all the modules prescribed for the fourth year of study for admission to the fifth year of study.

(n) **Fifth year of study**

(i) **Curriculum**

First semester		**Module code**	**Credits**
	Fundamental module		
	Longitudinal clinic attachment programme 580	LCP 580	-
	Core modules		
Block 15	Psychiatry and social dysfunction 581	GNK 581	34
	Psychiatry morning rotation		
Block 16	Health and healthcare 582	GNK 582	27
	Family medicine morning rotation		
SA 15	Forensic medicine morning rotation 587	GNK 587	4
Block 17	Traumatology 583	GNK 583	25
	Surgery morning rotation		
Block 18	Pharmacotherapy 585*	GNK 585	7
	Anaesthesiology 586	GNK 586	13
	Anaesthesiology morning rotation		
	Elective modules		
SSM	Special study module 511	SMO 511	2
SSM	Special study module 512	SMO 512	2
		Total credits first semester fifth year:	**114**

*****Block 18 (GNK 585) Pharmacotherapy 585 is preceded by two study weeks, namely Block 18a in the 2nd year, 2nd semester and Block 18b in the 4th year, 2nd semester.

Note: Marks obtained in the morning rotations are taken into account with the relevant block marks.

Second semester

Consult par. (o) regarding the commencement of the Student Intern Complex (SIC) at the beginning of the second semester of the fifth year of study.

(ii) **Block examinations and second examinations**

Consult par. (iii) below.

(iii) **Failed candidates**

(aa) At the end of the first semester of the fifth year of study, students will sit examinations in each block in which they have not been promoted. A second examination will take place immediately after commencement of the SIC. Successful students obtain SIC status and may continue with the SIC.

(bb) Students who fail the examination as well as the second examination in one block or more (and therefore fail the semester) may not continue with the SIC but participate in a remedial programme, which will take place during the first seven weeks of the second semester.

(cc) A second examination will be granted in the outstanding blocks at the end of the seven-week period.

(dd) Unsuccessful completion of the morning rotations during the first semester of the fifth year of study prevents a student from promoting the relevant block(s) and examination will become compulsory.

(ee) If the students pass in the second examination, they may join the SIC as from the second seven-week rotation period.

(ff) If a student again fails the second examination, the rest of the year of study will be used as remediation. In January of the subsequent year, students may commence provisionally with the SIC, but will have to interrupt the SIC for the duration of the unsuccessful block when it is presented in the first semester. Students will then have to repeat the block. Successful students then continue with the SIC.

(o) **Admission to the Student Intern Complex (SIC):**
Second half of the fifth year of study, and the sixth year of study

(i) For admission to the SIC, a student is required to pass in all the examination modules and morning rotations of the first semester of the fifth year of study.

(ii) **Rotations and end-of-rotations examinations (first examinations) and end-of-semester examinations (second examinations)**

(aa) Training in the SIC extends over 18 months. Rotations take place over a period of 63 weeks in three semesters.

(bb) All students who are involved, will enjoy the same rank of seniority and will be known as **student interns**; i.e. no differentiation will in this case be made between the status of the fifth-year and sixth-year student concerned.

(cc) A rotation extends over seven weeks, and every three rotations are grouped together in a logical manner in the three semester divisions of the SIC.

(dd) The semester rotations are divided as follows:

Student Intern Complex (SIC) (18 months)

SIC	Semester (a): Surgery and related disciplines and Family Medicine	Module code	Credits
	Core modules		
	(i) Surgery (7 weeks)	GNK 680	52
	- General surgery		
	- Vascular surgery		
	- Plastic surgery		
	- Paediatric surgery		
	- Cardiothoracic surgery		
	(ii) Surgery-related subdisciplines (3 weeks)		
	- Neurosurgery (1 week)		
	- Urology (2 weeks)	GNK 690	11
	(iii) Anaesthesiology and Family medicine (7 weeks)		
	- Anaesthesiology (3½ weeks)	GNK 682	20
	- Family medicine (3½ weeks)	GNK 691	20
	(iv) Orthopaedics (3 weeks)	GNK 681	17
	Total credits per semester:		**120**

SIC	Semester (b): Internal medicine and related sub-disciplines and psychiatry	Module code	Credits
	Core modules		
	(v) Internal medicine (7 weeks)	GNK 683	45
	(vi) Internal medicine-related subdisciplines (3½ weeks)	GNK 684	20
	- Dermatology		
	- Haematology		
	- Cardiology		
	(vii) Psychiatry (7 weeks)	GNK 685	40
	(viii) Neurology (3½ weeks)	GNK 693	15
	Total credits per semester:		**120**

SIC	Semester (c): Women's and children's health and community-based education	Module code	Credits
	Core modules		
	(ix) Obstetrics and gynaecology (7 weeks)	GNK 686	40
	(x) Paediatrics (7 weeks)	GNK 687	40
	(xi) Community obstetrics (3½ weeks)	GNK 692	20
	(xii) Community-based education (3½ weeks)	GNK 688	20
	Total credits per semester:		**120**

SA 13	Special activity: Diagnostic laboratory medicine	Module code	Credits
	Core module Diagnostic laboratory medicine (2 weeks) - Image-forming medicine - Evidence-based medicine - Bioethics (2 days)*	GNK 689	11
		Total credits GNK 689:	**11**
		Total credits Student Intern Complex:	**371**

*SA13 Diagnostic laboratory medicine is followed by two study days, namely SA13a in the 6th year, 2nd semester.

(ee) End-of-rotation examinations are held at the end of every seven-week rotation. Students who obtain a final mark of at least 60%, are promoted in the rotation and need not sit the end-of-semester examination in that rotation.
- In the first semester, this examination will be held three times (22-23 students in the first semester of their sixth year of study).
- In the second semester, this examination will also be held three times (approximately 45 students), i.e. students in the second semester of both the fifth and the sixth year of study.

(ff) End-of-semester examinations are held in the relevant rotations of the semester of a SIC in which students have performed unsatisfactorily (i.e. less than 60%).
Students who fail these examinations, will not be admitted to the rotations of the subsequent semester and will be required to repeat and pass the unsuccessful rotation(s). (Further details in this regard appear in par. (p))

(gg) During the first semester of the sixth year of study, two lecturing periods of two weeks each will be devoted to the following:
GNK 689: Diagnostic laboratory medicine
Image-forming medicine
Evidence-based medicine
Bioethics

(p) **Rotation(s) failed or not promoted in**

(i) A student intern who fails a seven-week rotation or rotations for the first time (i.e. the end-of-rotation examination) or is not promoted in the rotation(s) in question, sits the end-of-semester examination in the rotation(s) in question.
If successful in the second examination, he or she continues with the rotations of the following semester.
If unsuccessful, the relevant rotation(s) must be repeated at the first opportunity in the next semester. The nature of such repetition must be regarded as remedial and it ends with the next end-of-rotation examination.

(ii) The end-of-rotation examination for such student interns serves as the next official examination and must, as such, be monitored by external examiners. A pass mark of at least 50% is required.

(iii) Student interns who pass the end-of-rotation examination, continue with the next “semester rotations” and may rejoin their original group for the duration of the rest of the SIC. The third rotation of the semester will then again be out of phase.

(iv) Student interns who fail the end-of-rotation examination again (i.e. first

examination), routinely continue with the next rotations or semester activity as applicable according to the number of rotations failed. Such student interns will complete the unsuccessful rotations at the end of the training period, after all other rotations have been passed.

(v) The sixth year of study may be failed twice, provided that no previous year has been failed. This means that there is a total of seven semesters available for the sixth year of study to a student intern who has not failed any previous year of study.

(q) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the Student Intern Complex rotations.

M.2 Bachelor of Science in Medical Sciences [BSc (Medical Sciences)]

Note:

As from 2004, the BSc (Medical Sciences) degree programme was transferred to the Faculty of Natural and Agricultural Sciences. The subjects Anatomy and Physiology are, however, still presented by the Faculty of Health Sciences.

M.2A Bachelor of Clinical Medical Practice [BClinical Medical Practice] (Code 10130011)

Also consult the General Regulations.

Note:

- A selection of candidates takes place (see General Information).
- Each student must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Clinical Medical Practice, immediately after admission to the first year of study.
- After obtaining the degree, graduates must also register with the Health Professions Council of South Africa.

(a) **Requirements for admission**

A National Senior Certificate with admission for degree purposes, with English and Mathematics, passed with at least a rating of 4 (50%-59%).

(b) **Duration and programme design**

Three years of full-time study. The integrated outcomes-based, problem-oriented degree programme consists of theoretical modules and clinical rotations.

(c) **Passing a module in the BClinical Medical Practice degree programme**

(i) A **module mark** is calculated from the continuous evaluation opportunities during the course of the presentation of the module in question. These evaluations shall include one or more of the following:

(aa) Evaluations regarding theoretical knowledge.

(bb) Evaluations regarding clinical knowledge and skills.

(cc) Compulsory attendance at and active participitation in prescribed activities.

(dd) Compulsory attendance at all academic support activities for the first two years of study.

(ii) Students may exercise the option to have the module mark at the **end of the year** validated as the **final module mark** for the module in question (i.e. they

are exempted from the module examination for this module), provided that they comply with the following requirements:

(aa) The abovementioned module mark is more than 60% in all the different module assessments (with the exception of the Anatomy module that is more than 65%).

(bb) Proven attendance at all applicable module-specific activities, namely:
- All tests/continuous evaluations.
- All practicals and morning ward-round activities.
- All relevant skills laboratory activities.
- All relevant community-based education activities.
- All clinical rotations.

(cc) A pass mark in the clinical rotation test.

(dd) Attendance at the module in question from day 1.

(ee) No conviction by the Faculty Preliminary Disciplinary Committee (Student offences) of any form of dishonesty or fraud.

(iii) A **module examination** is granted to all registered students regardless of the module mark, subject to adequate attendance at and active participation in prescribed clinical activities as set out in Reg. M.2A.4.

(iv) The **final module mark** is calculated from the module examination mark and the module mark (continuous evaluation) in a 50:50 ratio, depending on the year of study and/or module-specific regulations. The formula according to which the final module mark is calculated will be set out in the study guide and communicated to students at the commencement of the programme.

(v) In order to pass in a module, a subminimum of 40% is required in the written section of the module examination. In order to pass in a module in which a clinical component is included, a subminimum of 50% in the clinical component of the module examination is also required.

(vi) A **second examination** in a module will be granted to all students who fail the module in question.

(vii) As a rule, the **second examination** in question will take place in November/ December of the same year, or in January of the following year. A minimum of 50% is required in order to pass in the second examination.

(viii) An **aegrotat or extraordinary examination** granted to a student who could not participate in the module examination due to illness or other acceptable reasons, will take place during the second examination period. Students must apply formally for such an examination, and admission to the examination is approved by the Chairperson of the School or his/her authorised representative. Where applicable, the Chairperson of the School may first require a recommendation from the Faculty Health Committee before approving an application for admission to an aegrotat.

All modalities of a final examination must be completed jointly as an aegrotat or an extraordinary examination, even if part of it has already been completed as part of the examination sat in the previous examination period. The **final module mark** is calculated from the marks of all the divisions/modalities of the aegrotat or extraordinary examination and the module mark in question (continuous evaluation mark). The same criteria set for a final mark in a module, are applicable in this case.

Note: No special **dates** will be arranged for an aegrotat/extraordinary examination. These examinations will only take place on the scheduled dates for regular first/second examinations.

(ix) Aegrotat/extraordinary **tests** are not allowed for the BClinical Medical Practice degree programme. However, students who have acceptable

reasons for being absent from no more than one test will have a module mark calculated from the other continuous assessment opportunities. Students who have acceptable reasons for being absent from more than one test will, of course, have no module mark, and a pass in the module(s) will depend totally upon the module examination mark.

(d) **Examinations and pass requirements**

(i) In accordance with the stipulations of General Regulation G.10(2), no minimum year or semester mark is required for admission to the examination. Adequate attendance at (more than 90%) and active participation in prescribed clinical activities as recorded in the clinical logbook are required for admission to the examination.

(ii) A **final module mark** in the relevant module is, however, calculated from the module examination mark **as well as** the module mark compiled from **continuous evaluation** during the presentation of the module (i.e. the semester, year or module mark). The latter is calculated from the marks obtained in one or more of the undermentioned:

(aa) Evaluations of theoretical knowledge.
(bb) Evaluations of clinical knowledge and skills.
(cc) Compulsory attendance at and participation in prescribed activities.
(dd) Compulsory attendance at all academic support activities for the first two years of study.

(iii) The contribution of each modality in the calculation of the abovementioned mark is set out in the regulations and published in the study guides. The details are explained in detail to the students concerned before commencement of the modules. Likewise, also the weight (50:50) allocated to the abovementioned marks and the various examination marks when calculating the final module mark awarded to the student. The importance of continuous evaluation in the assessment of students is non-negotiable, and therefore the marks awarded in this type of evaluations will form part of the final pass mark of all modules.

(iv) A student repeating the first or second year of study will retain credit for Clinical Medical Practice modules passed previously, subject to the following:

(aa) The student will be required to participate adequately in the current year in the clinical component of all Clinical Medical Practice modules in order to maintain a specified level of clinical skills and be required to record such activities in an appropriate clinical logbook.
(bb) Compliance with (aa) is a requirement for the admission to subsequent CMP modules.
(cc) In order to comply with the requirements for (aa), the extent of involvement of students in successfully completed modules is determined by the relevant course coordinator, at the commencement of the year, and agreed with the student(s) concerned.

(e) **Academic exclusion from further study**

(i) In accordance with the stipulations of General Regulation G.3.2(b), re-registration of a student is permitted only if the student completes the degree programme for which he or she is registered within the prescribed minimum period of study plus two years.

(ii) In the case of the BClinical Medical Practice degree offered by the School of Medicine, a student who fails a year of study for a second time must apply, in

writing, to the Readmission Committee of the School, chaired by the chairperson of the School, for readmission to the programme.

(iii) The committee in question will take all factors into consideration and its decision and conditions will be final.

(f) **Curriculum**

First year of study

First semester

Modules	Module code	Credits per module
Fundamental modules:		
Academic information management 111*	AIM 111	4
Academic English for Health Sciences 131**	ELH 131	6
Core modules:		
Clinical medical practice 181	CMP 181	17
Anatomy 185	ANA 185	21
Physiology 185	FSG 185	12
Clinical rotations***		
Total credits per semester: (AIM and ELH modules excluded)		**50**

*Consult foregoing par. 5 under GENERAL ACADEMIC INFORMATION in this publication.

**Consult foregoing par. 4 under GENERAL ACADEMIC INFORMATION in this publication.

***Marks obtained in the clinical rotations are taken into account when calculating the relevant module marks.

(i) **Module examinations and second examinations**

As set out in Reg. M.2.A.3.

(ii) **Failed candidates/Admission to the second semester of the first year of study**

Selected first-year students, who have passed in sufficient prescribed first-semester modules at 100 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second semester of the first year of study.

Second semester

Modules	Module code	Credits per module
Fundamental module		
Academic information management 121*	AIM 121	4
Academic English for Health Sciences 132*	ELH 132	6
Core modules		
Clinical medical practice 182	CMP 182	56
Pharmacology 180	FAR 180	2
Clinical rotations**		
Total credits per semester (AIM and ELH modules excluded):		**58**
Total credits first year of study (AIM and ELH modules excluded)		**108**

*Consult foregoing par. 4 under GENERAL ACADEMIC INFORMATION in this publication.

**Marks obtained in the clinical rotations are taken into account when calculating the relevant module marks.

(i) **Module examinations and second examinations**
As set out in Reg. M.2A.(3).

(ii) **Failed candidates/Admission to the second year of study**

(aa) First-year students who have passed all prescribed core modules at 100 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second year of study.

(bb) A student who has failed any one or more of the 100-level core modules will have to repeat those modules failed before he/she will be admitted to the second year of study.

(cc) Also consult Reg. M.2A.5(ii) in respect of a student for the BClinical Medical Practice degree, who fails a year of study for a second time.

Second year of study

First semester

Modules	**Module code**	**Prerequisite**	**Credits per module**
Clinical medical practice 281: Cardiovascular system Respiratory system Gastrointestinal system Reticulo-endothelial system Genito-urinary system Clinical rotations*	CMP 281	CMP 181, 182	68
		Total credits per semester:	**68**

*Marks obtained in clinical rotations are taken into account when calculating the relevant module marks.

(i) **Module examinations and second examinations68**
As set out in Reg. M.2A.3.

(ii) **Failed candidates/Admission to the second semester of the second year of study**
Second-year students who have passed in sufficient prescribed first-semester modules at 200 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second semester of the second year of study.

Second semester

Modules	**Module code**	**Prerequisite**	**Credits per module**
Clinical medical practice 282: Head and neck Eyes, ears, mouth, nose and throat Musculoskeletal system Neurological system	CMP 282	CMP 281	68

Skin, endocrine system Pharmacology 280 Clinical rotations*	FAR 280	FAR 180	2
Total credits per semester:			**70**
Total credits second year of study:			**138**

*Marks obtained in the clinical rotations are taken into account when calculating the relevant module marks.

(i) **Module examinations and second examinations**
As set out in Reg. M.2A. 3.

(ii) **Failed candidates/Admission to the third year of study**

(aa) Second-year students who have passed in all prescribed first- and second-semester modules at 200 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the third year of study.

(bb) A student who has failed any one or more of the 200-level modules, will have to repeat those module(s) failed before he/she will be admitted to the third year of study.

(cb) Also consult Reg. M.2A.5 (ii) in respect of a student for the BClinical Medical Practice degree, who fails a year of study for a second time.

Third year of study

First semester

Modules	**Module code**	**Prerequisite**	**Credits per module**
Women's health 381*	CMP 381	CMP 281,282 FAR 280	24
Child health 382*	CMP 382	CMP 281,282 FAR 280	24
Emergency care 1 383	CMP 383	CMP 281,282 FAR 280	12
Infectious and chronic diseases 384*	CMP 384	CMP 281,282 FAR 280	36
Anaesthetics 385*	CMP 385	CMP 281,282 FAR 280	12
Mental health 386*	CMP 386	CMP 281,282 FAR 280	16
Orthopaedics 387*	CMP 387	CMP 281,282 FAR 280	12
Healthcare systems 380 Clinical rotations**	CMP 380	CMP 281,282 FAR 280	10
Total credits per semester:			**82 or 86*** **

*These modules will be either 1st semester or 2nd semester depending on rotation arrangements.

**Marks obtained in the clinical rotations are taken into account when calculating the relevant module marks.

***Depending on rotation arrangements.

(i) **Module examinations and second examinations**
As set out in Reg. M.2A.3.

(ii) **Failed candidates/Admission to the second semester of the third year of study**
Third-year students who have passed in sufficient prescribed first-semester modules at 300 level will, in accordance with the stipulations of General Regulation G.3, automatically be admitted to the second semester of the third year of study.

Second semester

Modules	**Module code**	**Prerequisite**	**Credits per module**
Women's health 381*	CMP 381	CMP 281,282 FAR 280	24
Child health 382*	CMP 382	CMP 281,282 FAR 280	24
Infectious and chronic diseases 384*	CMP 384	CMP 281,282 FAR 280	36
Anaesthetics 385*	CMP 385	CMP 281,282 FAR 280	12
Mental health 386*	CMP 386	CMP 281,282 FAR 280	16
Orthopaedics 387*	CMP 387	CMP 281,282 FAR 280	12
Emergency care 2 389	CMP 389	CMP 281,282 383,FAR280	12
Dispensing 380	FAR 380	CMP 281,282 FAR 280	4
Clinical rotations**			
Total credits per semester:			**76 or 80*** **
Total credits third year of study:			**162**

*These modules will be either be offered in the 1st or 2nd semester depending on rotation arrangements.
**Marks obtained in the clinical rotations are taken into account when calculating the relevant module marks.
***Depending on rotation arrangements.

(i) **Module examinations and second examinations**
As set out in Reg. M.2A.3.
(ii) **Failed candidates/Academic exclusion from further study**
Consult Reg. 2A.5 in respect of a student who does not complete the degree programme within the prescribed minimum period of study plus two years.

(g) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the clinical modules of the second and third years of study.

M3 Master of Medicine [MMed]

Regulations and curricula

Please note:

(i) All MMed students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily.

(ii) All MMed students must submit an essay (MMS 800) which must be assessed as satisfactory by an external examiner, or an article that has been accepted for publication in a subsidised periodical. An ordinary literature review will not be accepted.

(iii) A **systematic literature review** (Cochrane type) on an approved subject, which is undertaken in such a manner that bias is minimised, may be presented as an alternative to the **dissertation** for awarding the MMed (Public Health Medicine) degree, It requires, inter alia, a protocol with clearly formulated objectives and methods. Inclusion and exclusion methods for the study must be determined. Where applicable, the data must be summarised (meta analysis), with applicable statistical methods. This alternative is in special cases applicable to other MMed degrees.

The MMed degree is conferred in the following fields:

(i) Anaesthesiology – [MMed(Anaes)]
(ii) Surgery – [MMed(Sur)]
(ii)(a) Option: Paediatric Surgery
(iii) Dermatology – [MMed(Derm)]
(iv) Physical Medicine – [MMed(MedPhys)] [Discontinued until further notice]
(v) Emergency Medicine – [MMed(Emergency Med)] – see ***Note*** below
(vi) Family Medicine – [MMed(Family Medicine)]
(vii) Geriatrics – [MMed(Geriat)]
(viii) Internal Medicine – [MMed(Int)]
(ix) Medical Oncology – [MMed(MedOnc)] – see ***Note*** below
(x) Nuclear Medicine – [MMed(NuclMed)]
(xi) Paediatrics – [MMed(Paed)]
(xii) Neurosurgery – [MMed(NeurSur)]
(xiii) Neurology – [MMed(Neur)]
(xiv) Obstetrics and Gynaecology – [MMed(O et G)]
(xv) Ophthalmology – [MMed(Ophth)]
(xvi) Otorhinolaryngology – [MMed(ORL)]
(xvii) Orthopaedics – [MMed(Orth)]
(xviii) Pathology – [MMed(Path)]
(xix) Plastic Surgery – [MMed(PlastSur)]
(xx) Psychiatry – [MMed(Psych)]
(xxi) Radiological Diagnostics – [MMed(Rad-D)]
(xxii) Radiation Oncology – [MMed(Rad-Onc)]
(xxiii) Thoracic Surgery – [MMed(ThoracSur)]
(xxiv) Urology – [MMed(Urol)]

Note:

- Inquire at the Head of Department regarding the availability of registrarships for the specialisation Medical Oncology.
- Inquire at the Head of the Department of Family Medicine regarding the availibility of registrarships for the specialisation Emergency Medicine.

(a) **Requirements for admission**
A prospective student for the MMed degree programme must be in possession of the MBChB degree of this University, or a qualification deemed by the University to be equivalent to the MBChB degree, for at least two years. In addition, such a student must be registered as a physician with the Health Professions Council of South Africa for at least one year.

(b) **Duration**
(i) The training for the degree extends over four or five years in accordance with the requirements of the department under which the chosen major subject falls.
(ii) "Major subject" refers to the recognised field of study in Medicine in which the student specialises. The study of the major subject extends over four or five years, as prescribed by the department in question.

(c) **Each student must prove to the University that he or she**
(i) has successfully filled the required full-time training post for a period of four or five years according to the requirements of the department in question at the Steve Biko Academic Hospital or Kalafong Hospital or at an institution recognised by the University as equivalent;
(ii) has completed the theoretical, practical, clinical and applicable training as stipulated in Reg. M.3 (b) above; and
(iii) has passed the prescribed written, oral, practical and/or clinical university examinations.

(d) **Exemption**
(i) The Faculty Board may grant partial exemption from the training and work mentioned under par. (b) and (c)(i) and (ii) above on the grounds of comparable training and experience completed in another post or at another recognised institution – with the proviso that exemption from a maximum period of 18 months may be granted with regard to four-year and five-year programmes.
(ii) Exemption from a maximum of three years may be granted by the Department of Medical Oncology for the MMed in Medical Oncology [MMed(MedOnc)] on the grounds of the MMed(Int) or MMed(Paed) degree of this University, or experience recognised by the University as equivalent.
(iii) All prerequisite subjects, indicated with an asterisk (*), must be passed within 24 months after commencement of the programme.
(iv) Exemption from a maximum of two years' clinical training may be granted in the Department of Forensic Medicine in respect of the MMed(Path) degree with specialisation Forensic Pathology, to a candidate already in possession of an MMed degree (or a degree deemed equivalent by the University) with specialisation in Anatomical Pathology.

(e) **Rules governing the writing of the examinations of the College of Medicine of South Africa [CMSA]**
(i) Only candidates who have met all requirements for the MMed degree except for the major subject (final examination), i.e. passed all prerequisite subjects (the latter to be interchangeable; can be passed either at the University or as primary and intermediary examinations at the College of Medicine of South Africa [CMSA], completed all practical, clinical and applicable training of four or five years as prescribed by the relevant academic department (continuous

evaluation of the candidate, in an approved registrar post, by the Head of department of the candidate); and completed the required research component for the degree in accordance with the Faculty Yearbook regulations, i.e. Applied research methodology 800 (TNM 800) and the essay (MMS 800) or an article (not an ordinary literature review) that has been accepted for publication in a subsidised periodical, will be allowed to write the college examination (exit examination), after which they will obtain both the FCP and the MMed as specialist qualifications.

(ii) The rules will be effective as from 1 January 2012. As a **transitional measure,** cases will be considered on an individual basis where necessary.

(f) **Curricula**

The curriculum consists of a major subject and its prerequisites:

(i) **Anaesthesiology (Code 10250011)**
Major subject: ANE 801 Anaesthesiology 801.
Prerequisites: FSG 801 Physiology 801*; CHP 805 Chemical pathology 805*; FAR 802 Pharmacology 802*; FSK 808 Physics 808*.
Duration of training: Four years.

(ii) **Surgery (Code 10250021)**
Major subject: CHR 800 Surgery 800
Prerequisites: ANA 802 Anatomy 802*; FSG 801 Physiology 801*; ANP 802 Anatomical pathology 802*; BVC 800 Principles of surgery 800 (Neuro-surgery, Orthopaedics, Plastic surgery, Thoracic surgery, Urology).
Duration of training: Five years.

Option: Paediatric Surgery (Code 10250023)
Major subject: CHR 805 Paediatric surgery 805
Prerequisites: ANA 802 Anatomy 802*; FSG 801 Physiology 801*; ANP 802 Anatomical pathology 802*; BVC 800 Principles of surgery 800 (Neurosurgery, Orthopaedics, Plastic surgery, Thoracic surgery, Urology, Paediatric ICU).
Duration of training: Five years.

(iii) **Dermatology (Code 10250031)**
Major subject: DER 800 Dermatology 800.
Prerequisites: PAG 804 Pathology 804 (Anatomical, Microbiological, simultaneously with the major subject); ANA 807 Anatomy 807*; FSG 801 Physiology 801*.
Duration of training: Four years.

(iv) **Physical Medicine (Code 10250081)**
Discontinued until further notice.

(v) **Emergency Medicine (10250392)**
Major subject: NGK 801 Emergency medicine 801
Prerequisites: ANA 802 Anatomy 802, FSG 801 Physiology 801, FAR 880 Pharmacology 880, PAG 880 Pathology 880.
Duration of training: Four years.
Note: Inquire at the Head of the Department of Family Medicine regarding the availability of registrarships.

(vi) **Family Medicine (10250401)**
Major subject: HAK 800 Family medicine 800
Prerequisites: AEH 801 Anatomy, embryology and histology 801; FSG 809 Physiology 809; DLM 807 Diagnostic laboratory medicine 807.
Duration of training: Four years.

(vii) **Geriatrics (Code 10250041)**
Major subject: GER 800 Geriatrics 800.
Prerequisites: PAG 806 Pathology 806 (Chemical, Anatomical, Micro-biological); ANA 893 Anatomy 893*; FSG 801 Physiology 801*; FAR 804 Pharmacology 804.
Duration of training: Four years.

(viii) **Internal Medicine (Code 10250051)**
Major subject: IGK 800 Internal medicine 800
Prerequisites: ANA 800 Anatomy 800*; FSG 801 Physiology 801*
Attendance courses: (simultaneously with the major subject);
FAR 806 Pharmacology 806; PAG 808 Pathology 808 (Anatomical, Chemical, Haematological, Microbiological).
A certificate issued by the Head of Department must be submitted as proof that the student is well qualified in research methodology before the degree is conferred.
Duration of training: Four years.

(ix) **Medical Oncology (Code 10250163)**
Major subject: MDN 801 Medical oncology 801
Prerequisites: ANA 800 Anatomy 800, FSG 801 Physiology 801, FAR 806 Pharmacology 806, PAG 808 Pathology 808 (Anatomical, Chemical, Haematological, Microbiological).
Duration of training: 5 years, or
3 years MMed(Int) + 2 years MMed(MedOnc) = 5 years
Inquire at the Head of Department regarding the availability of registrarships for this specialisation.

(x) **Nuclear Medicine (Code 10250381)**
Major subject: KDE 801 Nuclear medicine 801
Prerequisites: ANA 809 Anatomy, 809 FSG 801 Physiology 801*; KDE 802 Nuclear physics 802*; PAG 801 Pathology 801* (Chemical and Haematological), RCF 800 Radiobiology, chemistry and pharmacology 800.
Duration of training: Four years (of which at least six months' ward rounds in Radiological Diagnostics). If a student specialises in Nuclear Medicine after having obtained the MMed in Radiological Diagnostics, Radiation Oncology or Internal Medicine, the duration will be three years.

(xi) **Paediatrics (Code 10250121)**
Major subject: KGE 800 Paediatrics 800

The degree requirements consist of the following components:
(aa) Successful completion of the primary subjects for the MMed(Paed):
- Successful completion of the College of Paediatricians Fellowship Examination Part 1

or

- ANA 805 Anatomy 805*; FSG 801 Physiology 801*; PAG 802 Pathology 802* (Chemical pathology, Anatomical pathology, Haematology, Microbiology).

(bb) Final Professional Theoretical and Clinical Examination: Provided that a student may be exempted from writing this examination if he/she has passed the Final Fellowship Examination of the College of Paediatricians of South Africa [FC Paed (SA)] within the previous two years
Duration of training: Four years.

(xii) **Neurosurgery (Code 10250191)**
Major subject: NCR 800 Neurosurgery 800
Prerequisites: ANA 894 Anatomy 894*; FSG 801 Physiology 801*; ANP 875 Anatomical pathology 875*; BVC 801 Principles of surgery 801* (Surgery, Urology, Neurosurgery, Orthopaedics, Plastic surgery, Thoracic surgery).
Duration of training: Five years.

(xiii) **Neurology (Code 10250091)**
Major subject: NRE 800 Neurology 800.
Prerequisites: PAG 805 Pathology 805* (Anatomical, Chemical, Micro-biological); ANA 891 Anatomy 891*; FSG 801 Physiology 801*.
Duration of training: Four years.

(xiv) **Obstetrics and Gynaecology (Code 10250101)**
Major subject (Final examination): OEG 800 Obstetrics and gynaecology 800.
Prerequisite subjects (Primary examination): ANA 803 Anatomy 803*; FSG 801 Physiology 801*.
In addition to the prerequisite subjects mentioned, also (OEG 801) Additional examination: Basic sciences 801 (examination on aspects from the basic sciences, as applicable to Obstetrics and Gynaecology).
Prerequisite subject (Intermediary examination): ANP 803 Anatomical pathology 803*.
Duration of training: Four years.

(xv) **Ophthalmology (Code 10250111)**
Major subject: OHK 800 Ophthalmology 800.
Prerequisites: ANP 871 Anatomical pathology 871*; ANA 876 Anatomy 876*; FSG 801 Physiology 801*; GMO 800 Geometrical optics 800*.
Duration of training: Four years.

(xvi) **Otorhinolaryngology (Code 10250361)**
Major subject: ONK 800 Otorhinolaryngology 800.
Prerequisites: ANP 870 Anatomical pathology 870*; ANA 875 Anatomy 875*; FSG 801 Physiology 801*; BVC 807 Principles of surgery 807.
Duration of training: Four years.

(xvii) **Orthopaedics (Code 10250201)**
Major subject: ORT 800 Orthopaedics 800.
Prerequisites: ANA 895 Anatomy 895*; FSG 801 Physiology 801*; ANP 879 Anatomical pathology 879; BVC 802 Principles of surgery 802 (Surgery, Urology, Neurosurgery, Orthopaedics, Plastic surgery, Thoracic surgery).
Duration of training: Five years.

(xviii) **Pathology**

(1) **Clinical Pathology (Code 10250241)**
Major subject: MBG 800 Microbiology 800; CHP 802 Chemical pathology 802; HEM 801 Haematology 801.
Prerequisites: APA 800 General pathology 800 (of which six months in each of Microbiology, Chemical pathology and Haematology).
Duration of training: Five years with at least 18 months in each major subject.

(2) **Anatomical Pathology (Code 10250251)**
Major subject: ANP 800 Anatomical pathology 800.
Prerequisites: ANP 801 Anatomical pathology 801, ANA 800 Anatomy 800.
Satisfactory progress after 18 months of training is required, as evaluated by the applicable examination panel.

(3) **Medical Microbiology (Code 10250261)**
Major subject: GMB 800 Medical microbiology 800
Prerequisites: GMB 801 Medical microbiology 801, or capita selecta from Anatomical pathology (APY 871), Chemical pathology (CHP 871), Haematology (HEM 871), Medical virology (GVR 871) – as approved in consultation with the heads of department in question.
Satisfactory progress after one year of training is required as evaluated by the applicable examination panel.

(4) **Chemical Pathology (Code 10250271)**
Major subject: CHP 800 Chemical pathology 800.
Prerequisites: FSG 801 Physiology 801, CHP 801 Chemical pathology 801, or capita selecta from Anatomical pathology (APY 871), Haematology (HEM 871), Medical microbiology (GMB 871), Medical virology (GVR 871) – as approved in consultation with the heads of department in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.

(5) **Haematology (Code 10250281)**
Major subject: HEM 800 Haematology 800.
Prerequisites: FSG 801 Physiology 801, HEM 801 Haematology 801, or capita selecta from Anatomical pathology (APY 871), Chemical pathology (CHP 871), Medical microbiology (GMB 871), Medical virology (GVR 871) – as approved in consultation with the heads of department in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.

(6) **Medical Virology (Code 10250391)**
Major subject: GVR 800 Medical virology 800
Prerequisites: GVR 801 Medical virology 801, or capita selecta from Anatomical pathology (APY 871), Chemical pathology (CHP 871), Haematology (HEM 871), Medical microbiology (GMB 871) – as approved in consultation with the heads of department in question.
Satisfactory progress after one year of training is required, as evaluated by the applicable examination panel.
Duration of training: Four years, of which at least three years must be in the major field of study. The fourth year can either be in the major subject or in any combination of the other Pathology specialisations.

(7) **Forensic Pathology (Code 10250272)**
Major subject: GGK 800 Forensic medicine 800
Prerequisites: ANA 800 Anatomy 800, FSG 801 Physiology 801, FAR 803 Pharmacology 803, ANP 874 Anatomical pathology 874.
Duration of training: Four years.

(xix) **Plastic Surgery (Code 10250211)**
Major subject: PCR 800 Plastic surgery 800.
Prerequisites: ANA 896 Anatomy 896*; FSG 801 Physiology 801*; ANP 876 Anatomical pathology 876*; BVC 803 Principles of surgery 803 (Neurosurgery, Orthopaedics, Plastic surgery, Thoracic surgery, Urology, Surgery).
Duration of training: Five years.

(xx) **Psychiatry (Code 10250141)**
Major subject: PSI 800 Psychiatry 800.
Prerequisites: ANA 804 Anatomy 804*; FSG 801 Physiology 801*; ANP 872 Anatomical pathology 872*; MTS 801 Medical applied psychology 801*; NRE 801 Neurology 801.
Duration of training: Four years.

(xxi) **Radiological Diagnostics (Code 10250151)**
Major subject: RDD 800 Radiological diagnostics 800.
Prerequisites: ANP 807 Anatomical pathology 807 (simultaneously with the major subject at the end of the fourth year); ANA 808 Anatomy 808*; FSG 801 Physiology 801*; MFK 800 Medical physics 800*.
Duration of training: Five years.
If this specialisation is followed after having obtained the MMed (Radiation Oncology), the duration of the programme will be three years.

(xxii) **Radiation Oncology (Code 10250162)**
Major subject: SOZ 800 Radiation oncology 800 (including Medical oncology).
Prerequisites: ANP 809 Anatomical pathology 809; ANA 809 Anatomy 809*; FSG 801 Physiology 801*; MFK 801 Medical physics 801* (must be completed within 18 months), RBG 801 Radiobiology 801 (must be finalised within 30 months).
Duration of training: Four years. If this specialisation is followed after having obtained the MMed in Radiological Diagnostics, the duration of the programme will be three years.

(xxiii) **Thoracic Surgery (Code 10250231)**
Major subject: TCR 800 Thoracic surgery 800.
Prerequisites: ANA 898 Anatomy 898*; FSG 801 Physiology 801*; ANP 878 Anatomical pathology 878*; BVC 805 Principles of surgery 805 (Neurosurgery, Orthopaedics, Plastic surgery, Urology, Surgery, Thoracic surgery).
Duration of training: Five years.

(xxiv) **Urology (Code 10250221)**
Major subject: URO 800 Urology 800.
Prerequisites: ANA 897 Anatomy 897*; FSG 801 Physiology 801*;

ANP 877 Anatomical pathology 877*; BVC 804 Principles of surgery 804 (Neurosurgery, Orthopaedics, Plastic surgery, Urology, Surgery, Thoracic surgery).
Duration of training: Five years.

(g) **Examinations**

(i) The sequence of the examinations in the prerequisite subjects will be determined by the head of the department under which the major subject falls.

(ii) The nature, duration and time of the examinations in the prerequisite subjects are determined in cooperation with the heads of the departments under which the prerequisite subjects fall – with the proviso that, except in cases where stipulated otherwise, the examinations in the prerequisite subjects may be held at any time prior to or concurrently with the major subject. The examinations in the major subjects are held as follows:
- In the case of four-year programmes: not before the end of the third year.
- In the case of five-year programmes: not before the end of the fourth year.

(iii) A minimum final mark of 50% is required by all departments to pass in a subject and in the clinical section of the examination, a subminimum of 50%. General Regulation G.12 applies.

(iv) A student is not admitted to the examination in a prerequisite subject (second examinations excluded) more than twice, nor is he or she admitted to the examination in the major subject more than twice.

Note: Certificates of satisfactory preparation and progress are required in respect of the fourth year of four-year programmes in which an examination is held at the end of the third year.

(h) **Second examinations**

Second examinations for MMed students will only be held after at least six months have elapsed since the conclusion of the examination in which the student had failed.

(i) **Conferment of the degree/Degree with distinction**

The degree is conferred at the end of the prescribed training period (i.e. three, four or five years, respectively). The degree is conferred with distinction on a student who has obtained a final mark of at least 75% in his or her major subject.

(j) **General**

Departments expect registrars to participate increasingly in the examining and treatment of patients in the hospital, both in-patients and out-patients; initially under supervision and later increasingly at their own responsibility. Lectures/symposia with closely related departments are organised, as well as discussions of literature, etc.

M.4 Master of Medicine in Family Medicine [MMed (Family Medicine)]

Consult Reg.M.3 in this publication.

M.5 Master of Military Medicine [MMilMed] (Code 10255001)

Also consult the General Regulations.

(a) **Requirement for admission**
Candidates must be in possession of the MBChB degree for at least two years.

(b) **Duration**
Three years, of which the first two years will be part-time study, and the final year full-time study as a registrar in the relevant main discipline.

(c) **Curriculum**
Major subject: Military medicine (specialising in either MIG 800 Internal medicine 800 or CHR 800 Surgery 800).
Prerequisites: FSG 801 Physiology 801; VGN 800 Preventive medicine 800; IGK 804 Internal medicine 804; CHR 801 Surgery 801; and RAT 800 Radiotherapy 800.

(d) **Examinations**
(i) The sequence of the examinations in the prerequisite subjects is determined by the head of the department under which the major subject falls.
(ii) The nature, duration and time of the examinations are determined in co-operation with the heads of the departments under which the prerequisite subjects fall – with the proviso that, except in cases indicated differently, the examinations in the prerequisite subjects will be held at any time prior to, or concurrently with the examinations in the major subject.
(iii) To pass in a module, a minimum final mark of 50% is required.
(iv) A student will not be admitted to the examinations in a prerequisite module, or to the examination in the major subject, more than twice (second examinations excluded).

(e) **Second examinations**
Second examinations will take place only after at least six months have elapsed since the conclusion of the examination in which the student failed.

(f) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained a final mark of at least 75% in his or her major subject.

M.6 Master of Medical Pharmacology [MPharmMed] (Code 10256001)

Also consult General Regulations.

(a) **Requirements for admission**
A candidate for admission to the study for the MPharmMed degree must be in possession of the MBChB degree of this University or a qualification deemed equivalent by the University, for at least one year. Additionally, the candidate must be registered as a medical practitioner with the Health Professions Council of South Africa.

(b) **Duration**
Three years of part-time study.

(c) **Curriculum**
(i) **First year of study**
MFM 801 Medical pharmacology 801

MBS 800 Medical biostatistics 800
FFD 801 Pharmacokinetics and pharmacodynamics 801
WKT 881 Practical work and work assignments 881

(ii) **Second year of study**
MFM 802 Medical pharmacology 802
FFD 802 Pharmacokinetics and pharmacodynamics 802
WKT 882 Practical work and work assignments 882
NAV 882 Research report (Preparation) 882

(iii) **Third year of study**
MFM 803 Medical pharmacology 803
FFD 803 Pharmacokinetics and pharmacodynamics 803
WKT 883 Practical work and work assignments 883
NAV 883 Research report 883

(d) **Examinations**
(i) The examinations for each year of study will take place during the summer examination period.
(ii) To pass in a module, a minimum final mark of 50% is required.
(iii) In addition to the examination, a student will be required to complete all practical work and work assignments satisfactorily, as well as (NAV 882) Research report (Preparation) 882 and pass (NAV 883) Research report 883 (minimum pass mark 50%), in order to comply with all the requirements for the degree.
(iv) Second examinations will not be held before at least six months have elapsed since conclusion of the examination in which the student failed.

(e) **Degree with distinction**
The degree will be conferred with distinction on a student who has obtained a final mark of at least 75% in the following modules:
(i) Medical pharmacology 802 and 803
(ii) Pharmacokinetics and pharmacodynamics 802 and 803, as well as a final mark of at least 75% for (NAV 883) Research report 883 in the final year of study.

M.7 Master of Philosophy in Philosophy and Ethics of Mental Health [MPhil (Philosophy and Ethics of Mental Health)] (Code 10250500)

Also consult General Regulations.

(a) **Requirements for admission**
A bachelor honours degree or equivalent in a field of relevance to either mental health or philosophy eg MBChB; BPsych; BAHons; LLB; BCur; BOccTher, is the minimum admission requirement.
Practical experience and/or a relevant master's degree is strongly recommended e.g. MMed (Psych); MA (Philosophy); MA (Psychology); MA (Sociology) MA (Social Work); MMus (Music Therapy); LLM; MCur, MOccTher.

b) **Duration**
One year full-time or two years part-time study (with choice of e-learning)

(c) **Curriculum**

Modules	Credits
Core Modules	
FEG 881 Core concepts in philosophy and mental health 881	10
FEG 882 Philosophy of science and mental health 882	10
FEG 883 Philosophy of mind and mental health 883	10
FEG 884 Ethics, values and mental health 884	10
Research:	
FEG 890 Dissertation: Philosophy and ethics of mental health 890	140
Grand total of credits required:	**180**

(d) **Examinations and pass requirements**

(i) Students must complete the assignments of each of the core modules and obtain a minimum mark of 50% to pass in the respective core modules.

(ii) The dissertation must consist of five sections of which the first four will respectively address a topic from the core modules. The fifth section will be on an appropriate topic of the student's choice.

(iii) The first four sections of the dissertation should each be between 5 000 and 6 000 words and the fifth section should be approximately 10 000 words in length.

(iv) A minimum mark of 50% will be required in each section of the dissertation to pass.

(v) A student will be disqualified from further study towards this degree when he or she fails any one of the sections for the third time.

(e) **Degree with distinction**

The degree will be conferred with distinction on a student who obtains a mark of 75% or more for the dissertation.

M.8 Master of Philosophy in Pain Management [MPhil (Pain Management)] (10250501)

Please consult the programme director with regard to commencement of programme. (Prof HP Meyer tel 012 373 1018)

(a) **Requirements for admission**

Prospective students must have an applicable professional qualification and must be registered with his or her relevant professional board. Appropriate qualifications, together with the required professional board registration, include the following, but are not limited to these qualifications:

MBChB, MMed, BPhysT, BCur, BOccTher and BChD (according to the discretion of the Dean).

The number of students will be restricted to 40 or 50 and selection will take place according to the specific guidelines of the selection procedure.

(b) **Duration**

The programme extends over two academic years with three contact sessions per year, each consisting of 2½ days. A one-day orientation will take place on the day before the first module in year one.

(c) **Curriculum**

(i) **First year of study**

Modules	**Credits**
Core modules	
PYN 800 Introduction to pain management 800 (including research methodology)	40
PYN 801 Principles of pain management 801 (including research methodology)	20
PYN 802 Clinical pain management 802	20
Elective modules	
PYN 880 Minor interventional procedures 880	10
PYN 881 Minor interventional procedures 881	10
PYN 882 Physical therapy 882	10

(ii) **Second year of study**

Modules	**Credits**
Core credits	
PYN 803 Clinical pain management 803	20
PYN 804 Musculoskeletal pain 804	20
PYN 805 Unique pain scenarios	20
PYN 891 Research report 891	60
Elective modules	
PYN 883 Psychotherapy 883	10
PYN 884 Surgical procedures 884	10
PYN 885 Complementary/alternative approaches to pain management 885	10

(d) **Examination and pass requirements**

(i) An average of at least 50% must be achieved in both the assignments and/or case study presentations to pass a core module.
At least 50% must be obtained in the critical evaluation of the elective modules.

(ii) If a student fails to pass or to attend a particular module, a second examination in the form of a written case study assignment based on the relevant module, will have to be submitted within four weeks of the completion of the module, and an oral examination on the content of the module will also take place within these four weeks.

(iii) If this second attempt is also failed, a final re-examination in the form of a written case study assignment and an oral examination will take place within four weeks of the second examination.If this re-examination is failed, the student will not be allowed to continue with the programme.

(iv) If a student cannot fulfil these requirements within eight weeks for valid reasons, he/she may enrol for the module again at the next available opportunity when the module will be presented.

(v) For a student to progress to Year 2, at least two of the three core modules of the first year have to be passed and the protocol of the research project has to be accepted.

(vi) To qualify for the degree, a student has to:
- Attend at least five of the six core modules.
- Pass all six core modules.
- Attend and pass four of the six elective modules.
- Submit and pass the research report.

(e) **Degree with distinction**
The degree is conferred with distinction on a student who obtains a final mark of at least 75% for his/her research report and has passed all modules at the first attempt.

M.9 Master of Early Childhood Intervention [MECI] (Code 10258240)

Also consult General Regulations.

(a) **Admission requirements**
A candidate must be in possession of an applicable four-year professional bachelor's degree or an equivalent qualification.

(b) **Duration**
Two years of part-time study through distance education.

(c) **Curriculum**
Year 1
(The credit value of each module appears in brackets after the module code.)

Module	Module code
Critical theoretical analysis in ECI 801*	ECI 801 (90)

*Refer to the study guide available on request from the Centre for Augmentative and Alternative Communication for information on the subdivisions of the module.

Year 2
(The credit value of each module appears in brackets after the module code.)

Module	Module code
Collaborative problem-solving 872	ECI 872 (20)
Measurement in ECI 873	ECI 873 (20)
Evaluation and intervention 874	ECI 874 (20)
Applied discipline-directed elective module:	
Child health 860	ECI 860 (30)
Communication pathology 861	ECI 861 (30)
Educational psychology 862	ECI 862 (30)
Nursing science 863	ECI 863 (30)
Nutrition care 864	VSG 864 (30)
Occupational therapy 865	ECI 865 (30)
Physiotherapy 866	ECI 866 (30)
Severe disability 867	ECI 867 (30)
Social work 868	ECI 868 (30)
Audiology 869	ECI 869 (30)

(d) **Promotion to the second year of study**
A student must pass the first year of study for admission to the second year of study. Participation as described in the study guide is a requirement for promotion to the second year of study.

(e) **Examination and pass requirements**
(i) A minimum of 50% is required to pass in a module, and all modules must be passed before the degree will be conferred.

(ii) The nature and frequency of examinations will be determined by the head of department in conjunction with the programme supervisor.

(f) **Second examinations**

Second examinations or regrouping of work assignments will take place within two weeks or a month after conclusion of the examination in which the student failed.

(g) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% in all the modules.

M.10 Bachelor of Science Honours [BScHons]

Also consult General Regulations.

(a) **Requirements for admission**

- A candidate must hold a bachelor's degree deemed acceptable by the head of department for the proposed field of study, or an equivalent qualification deemed acceptable by the Senate of the University for the proposed field of study, with at least one applicable biological subject as major subject.
- Admission to the study for an honours degree is subject to the approval of the head of department: with the proviso that a candidate who has obtained an average of less than 60% in the modules of his or her major subject in the final year of the bachelor's degree study, may only be admitted with the **Dean's approval**, on the recommendation of the head of department. Additional requirements may be set by the head of department.
- The prerequisites for admission to the honours degree in certain fields of study are indicated in the syllabuses of the specific department, e.g. Physiology.
- Consult par (c)(vi) below with regard to special admission requirements for candidates who intend specialising in Physical Anthropology.

(b) **Duration**

One year of full-time study
Two years of part-time study

(c) **Curriculum**

(i) The BScHons degree is conferred in the following fields of study:

Field of study	Degree code	Module code
Anatomy	10243012	ANA 700 [see c (vi)]
Developmental Biology	10243015	ANA 711
Comparative Anatomy	10243019	ANA 712
Neuro-anatomy	10243016	ANA 713
Human Cell Biology	10243014	ANA 714
Physical Anthropology	10243017	ANA 715
Human Histology	10243013	ANA 716
Macro-anatomy	10243018	ANA 717
Biokinetics	10243020	BKA 700
Chemical Pathology	10243151	CHP 700
Pharmacology	10243161	FAR 705 [See c (v)]
Medical Immunology	10243171	GIM 700
Medical Nuclear Science	10243181	GKW 700

Medical Microbiology	10243001	GMB 700
Medical Virology	10243132	GVR 700
Haematology	10244061	HEM 700
Medical Criminalistics	10243191	KRT 700
Medical Oncology	10244030	MDN 700
Human Physiology	10243023	MFG 777 [See c (iii)]
Human Genetics	10243072	MGN 700 and 790
Sports Science	10243021	POK 700
Reproductive Biology: Andrology	10244042	RBA 700
Reproductive Biology	10244041	RBI 700
Cell Biology	10244051	SBI 700
Medical Physics	10243011	See c (iv)
Radiation Oncology	10243143	SOZ 700

(ii) **The following requirements are set:**

- Advanced instruction by means of self-tuition and four compulsory seminars of which at least one must be read to and defended before the department in question, on topics assigned to the student.
- Practical experience of the laboratory techniques used in the particular subsections of the subject.
- Attendance at the compulsory faculty module (TNM 800) Applied research methodology 800.
- Attendance at the prescribed module (MBS 800) Medical biostatistics 800.
- Taking part in a research project and presentation of an independent research report.
- Satisfactory attendance at a library-user course.

(iii) **The following additional requirements are set for the specialisation Human Physiology:**

- **Admission requirements**
  A minimum average of 60% in the final year (undergraduate) in Physiology.
- **Pass requirements**
  An average of at least 50% in all the sections of the module MFG 777 is required in order to pass (see syllabi). A minimum continuous evaluation mark of 40% is required for admission to the examination. The continuous evaluation mark is compiled from an average of 3 tests (50%), seminars and discussions on journals (25%), and project and presentation (25%). TNM 800 and MBS 800 must be completed successfully before the degree will be conferred.

(iv) **The following additional requirements are set for the specialisation Medical Physics:**

- **Modules to be taken in the Department of Physics, Faculty of Natural and Agricultural Sciences:**
  FSK 710 Mathematical methods 710
  FSK 711 Classical dynamics 711
  FSK 713 Quantum mechanics 713
  FSK 714 Electrodynamics 714
- **Modules to be taken in the School of Medicine:**
  GNF 700 Medical physics: Practical work 700
  GNF 701 Medical physics: Nuclear medicine 701
  GNF 702 Medical physics: Diagnostic radiology 702

GNF 703 Medical physics: Radiation physics 703
GNF 704 Medical physics: Radiotherapy 704
GNF 705 Medical physics: Radiation protection 705

(v) **The following additional requirements are set for the specialisation Pharmacology**:

Admission requirements

- A minimum average of 60% in Pharmacology at undergraduate level.
- In addition, the modules (FAR 381, 382) Pharmacology 381*, 382* must be completed at the Department of Pharmacology, if not completed at undergraduate level.

*Exemption from the examination in FAR 381, 382 may be granted if a student, who obtained a module mark of at least 60%, exercises the option to accept this as the final mark.

(vi) **The following additional requirements are set for the specialisation Anatomy, specifically with regard to Physical Anthropology:**

- Only students who intend to specialise in Physical Anthropology may, in addition to the requirements set in M.14(a) above, also apply for admission, provided that they are in possession of a BA degree with Archaeology as major subject.
- A minimum average of 60% in the modules of the major subjects in the final year of study, is required.
- The module (ANA 122) Human osteology 122 must be taken additionally.

(d) **Examinations**

(i) The examination at the end of the programme will consist of two written papers of three hours each as well as an oral examination of 30 minutes.

(ii) For the field of specialisation Medical Physics, one examination of three hours is required in each of the theoretical modules. The mark awarded to the practical work will also be taken into account when the final mark is calculated.

(iii) The maximum period for completion of the honours degree, is two years in the case of full-time students and three years in the case of part-time students. In exceptional circumstances, a student may apply, in writing, to the head of department for an extension of the period of study.

(iv) To comply with the pass requirements for the degree, a student must obtain a final mark of at least 50% in each division as indicated, as well as a pass mark of at least 50% for the essay/work assignment (if applicable). The stipulations regarding pass requirements for dissertations in General Regulation G.60.2.1.2(a) apply *mutatis mutandis* to essays.

(e) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the examination (written, oral, practical, etc).

M.11 Master of Science [MSc]

Also consult General Regulations.

Note:

All MSc students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption may be granted if the module has already been passed for the BScHons degree.) However, students who follow the

specialisation Pharmacology for the MSc degree, register for (FAR 872) Pharmacology: Introduction to laboratory research and techniques 872, instead of TNM 800.

(a) **Admission requirements**
Subject to the stipulations of General Regulation G.62, a four-year bachelor's degree is required, or an honours degree, or in the case of a three-year bachelor's degree, also applicable practical (work) experience as prescribed by the University, plus any other additional work deemed necessary by the head of department: With the proviso that the head of department will have the discretion to decide whether the prerequisite qualification, or the qualification plus work experience would be acceptable for admission to the proposed field of study.

(b) **Duration**
The maximum period for completion of the master's degree is four years. Subject to the stipulations of General Regulation G.32, the Chairperson of the School in question may, in consultation with the head of department, approve a fixed limited extension of the period on the grounds of extraordinary circumstances.

(c) **Research protocol**
After registration, a student is required to submit a complete research protocol regarding the proposed dissertation to the MSc Committee of the School and if necessary, also to the Ethics Committee for approval.

(d) **Dissertation**
A dissertation must be submitted via Student Administration at least three months prior to the date of a particular graduation ceremony. A manual on the editing of dissertations is available on request from the head of the department in question.

(e) **Compliance with degree requirements**
In accordance with the stipulations of General Regulation G.40.1, the MSc degree is conferred by virtue of an examination, or an examination and a dissertation, or an examination and an essay, or a dissertation.

(f) **Degree with distinction**
The degree is conferred with distinction on a student who has obtained an average of at least 75% in the examination, or in the examination and the dissertation, or in the examination and the essay, or in the dissertation.

(g) **Fields of specialisation**
The MSc degree is conferred in the following fields of study:

Field of study	Degree code	Examination code	Dissertation/ Essay
Anatomy	10253012	ANA 877	ANA 890
Cell Biology	10253102	SBI 800	SBI 890
Chemical Pathology	10253042	CHP 809	CHP 890
Haematology	10253261	HEM 809	HEM 890
Human Genetics	10253072	MGN 800	MGN 890
Human Physiology	10253025	MFG 807	MFG 890
Medical Applied Psychology**	10253322	See par (i)	See par (i)

Medical Criminalistics	10253122	KRT 800	KRT 890
Medical Immunology	10253242	GIM 800	GIM 890
Medical Microbiology	10253032	GMB 805	GMB 890
Medical Nuclear Science	10253062	GKW 800	GKW 890
Medical Oncology	10253301	MDN 800	MDN 890
Medical Physics	10253271	GNF 800	GNF 890
Medical Virology	10253132	GVR 805	GVR 890
Pharmacology	10253052	FAR 805	FAR 890
Radiation Oncology*	10253282	SOZ 805	SOZ 890
Reproductive Biology: Andrology	10253311	RBA 800	RBA 890
Reproductive Biology	10253092	RBI 800	RBI 890
Sports Medicine	10253142	See par (h)	See par (h)
Sports Science	10253143	POK 800	POK 890

* The head of department has the discretion to decide whether the specialisation Radiation Oncology will be presented in a particular year (the number of prospective students applying must justify the presentation of the specialisation in question in a given year).

** Candidates must first consult the Head of the Department of Psychiatry in connection with the offering of this field of specialisation.

(h) The following additional requirements are set for the **MSc in Sports Medicine:**

(i) **Admission**

A candidate for admission to studies for the MSc in Sports Medicine, must be in possession of the MBChB degree of this University, or a qualification deemed equivalent by the University, for at least one year. Additionally, the candidate must be registered as a physician with the Health Professions Council of South Africa.

(ii) **Curriculum**

SGN 802 Sports medicine 802 (Examination and oral: End of first year of study)
SGN 800 Sports medicine 800 (Examination, oral and practical: End of second or final year of study)
SGN 894 Essay: Sports medicine (Preliminary work) 894
SGN 895 Essay: Sports medicine 895
DTE 880 Sports dietetics 880
FSG 880 Sports physiology 880
SAN 880 Sports anatomy 880

(iii) **Examinations**

(aa) Examinations in the basic subjects FSG 880, SAN 880 and DTE 880 will take place at the end of the first semester.

(bb) The examination will comprise a two-hour written paper as well as an oral examination in each module, with a subminimum of 40% required in the written examination. To pass in a module, a minimum final mark of 50% is required.

(cc) Should a student fail one of the basic subjects, he or she may be allowed to repeat the examination at the end of the second semester.

(dd) Examinations (two papers of 3 hours each, an oral and a practical), as well as the essay, may only take place/be submitted after completion of the basic subjects.

(iv) **Degree with distinction**
The MSc in Sports Medicine is conferred with distinction on a student who has obtained at least 75% in (SGN 800) Sports medicine 800 and has completed the work assignment at cum laude level.

(i) The following additional requirements are set for the degree programme **MSc in Medical Applied Psychology** (candidates must, however, first consult with the Head of the Department of Psychiatry as regards the presentation of the specialisation in question):

(i) **Admission requirements**
An appropriate bachelor honours degree. In certain cases, additional modules may be prescribed by the head of department. Only a limited number of students are admitted annually.

(ii) **Curriculum**

MTS 802 Transcultural practice 802
MTS 803 Personality theory 803
MTS 804 Human development 804
MTS 805 Research methodology 805
MTS 806 Pathology 806
MTS 807 Communication theory 807
MTS 808 Practical work: Medical applied psychology 808
MTS 890 Dissertation: Medical applied psychology 890

NB: Students with previous academic training in Psychology may apply for exemption from certain sections of the programme by virtue of equivalent modules passed at postgraduate level.

M.12 Doctor of Medicine [MD]

Also consult General Regulations.

Please note: All MD students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption may be granted if Applied research methodology 800 has already been passed for the master's degree.)

(a) For admission to the study for the MD degree, a candidate must be in possession of the MMed or the PhD degree, or a qualification of equivalent status following a MBChB degree – in the case of Family Medicine, the MMed in Family Medicine; and in the case of Pharmacology, the MPharmMed degree of the University of Pretoria. Alternatively, the student must comply with the stipulations as set out in General Reg. G.45.

(b) The MD degree is conferred by virtue of a thesis and, if the Dean deems it necessary, an examination on the field of study of the thesis.

(c) A complete research protocol regarding the proposed thesis (as well as the curriculum vitae of the candidate) must be submitted for approval to the Postgraduate Committee and if necessary, also to the Ethics Committee. The thesis must deal with a problem from any field of study in Medicine and must satisfy the supervisor and the examiners that it represents advanced original research and/or creative work in the field of Medicine. It must give an overview of the literature that was used on the topic and contain a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached.

(d) The maximum period for completion of the degree is five years. Under exceptional circumstances, a student may apply to the head of department, in writing, for a fixed, limited extension of this period.

(e) The MD degree can be obtained in the following fields of study:

Field of study	Degree code	Examination code	Thesis
Anaesthesiology	10260011	ANE 900	ANE 990
Anatomy	10260221	ANA 900	ANA 990
Community Health	10260241	GGS 900	GGS 990
Dermatology	10260031	DER 900	DER 990
Family Medicine	10260251	HAK 900	HAK 990
Forensic Medicine	10260061	GGK 900	GGK 990
Geriatrics	10260041	GER 900	GER 990
Haematology	10260291	HEM 900	HEM 990
Health Systems	10260242	GSL 900	GSL 990
Human Physiology	10260272	MFG 900	MFG 990
Internal Medicine	10260051	IGK 900	IGK 990
Medical Microbiology	10260281	GMB 900	GMB 990
Medical Oncology	10260361	MDN 900	MDN 990
Neurology	10260071	NRE 900	NRE 990
Neurosurgery	10260171	NCR 900	NCR 990
Obstetrics and Gynaecology	10260081	OEG 900	OEG 990
Ophthalmology	10260091	OHK 900	OHK 990
Orthopaedics	10260181	ORT 900	ORT 990
Otorhinolaryngology	10260231	ONK 900	ONK 990
Paediatrics	10260101	KGE 900	KGE 990
Pathology	10260111	PAG 900	PAG 990
Pharmacology	10260261	FAR 900	FAR 990
Plastic and Reconstructive Surgery	10260191	PCR 900	PCR 990
Psychiatry	10260121	PSI 900	PSI 990
Public Health	10260243	OGD 900	OGD 990
Radiation Oncology	10260142	SOZ 900	SOZ 990
Radiological Diagnostics	10260131	RDD 900	RDD 990
Reproductive Biology: Andrology	10260012	RBA 900	RBA 990
Reproductive Biology	10260010	RBI 900	RBI 990
Surgery	10260021	CHR 901	CHR 991
Thoracic Surgery	10260211	TCR 900	TCR 990
Urology	10260201	URO 900	URO 990

M.13 Doctor of Philosophy [PhD]

Also consult General Regulations.

Please note: All PhD students must register for, and attend TNM 800 Applied research methodology 800 satisfactorily. (Exemption will be granted if Applied research methodology 800 had been passed for the master's degree.) However, students following the specialisation Pharmacology for this degree, register for (FAR 872) Pharmacology: Introduction to laboratory research and techniques 872, instead of TNM 800.

(a) Subject to the stipulations of General Regulations G.45 and G.62, a candidate will only be admitted to the studies for the doctoral degree if he or she holds a MBChB or a master's degree or has been granted the equivalent status.

(b) **A PhD student must**

(i) under the supervision of a supervisor at the university or another institution approved by the Senate, undertake original research to the satisfaction of the examiners; and

(ii) submit a thesis which will prove, according to the opinion of the examiners, that he or she has, on the grounds of independent critical judgement, made a distinct contribution towards the enrichment of knowledge in the chosen subject.

(c) A student for the PhD degree must be registered for the doctoral degree study at the University for at least one academic year before the degree can be conferred.

(d) The PhD degree is conferred by virtue of a thesis and, should the Dean deem it necessary, an examination on the field of study of the thesis.

(e) A complete research protocol regarding the proposed thesis (as well as the curriculum vitae of the candidate) must be submitted to the Postgraduate committee of the School in question and if necessary, also to the Ethics Committee for approval. The thesis must deal with a problem from any field of study in the Health Sciences and must satisfy the supervisor and the examiners that it represents advanced original research and/or creative work in the field of the Health Sciences. It must give an overview of the literature that was used on the topic and contain a description of the observations made and experiments done by the student, as well as a discussion of the conclusions reached.

(f) The doctoral examination will be oral and/or written and will deal with the content of the thesis as well as those subdivisions of the field of study on which the thesis is based, if requested.

(g) The maximum period for completion of a doctoral degree is five years. Under exceptional circumstances, a student may apply to the head of the department, in writing, for a fixed, limited extension of this period.

(h) The PhD degree can be obtained in the following fields of study:

Field of study	Degree code	Examination code	Thesis
Anaesthesiology	10260521	ANE 900	ANE 990
Anatomical Pathology	10260441	ANP 900	ANP 990
Anatomy	10260331	ANA 900	ANA 990
Chemical Pathology	10260501	CHP 900	CHP 990
Diagnostic Radiology	10260591	DGR 900	DGR 990
Family Medicine	10260461	HAK 900	HAK 990
Forensic Pathology	10260611	GGK 900	GGK 990
Health Ethics	10260601	FEG 900	FEG 990
Human Genetics	10260421	MGN 900	MGN 990
Human Physiology	10260342	MFG 900	MFG 990
Internal Medicine	10260381	IGK 900	IGK 990

Medical Immunology	10263051	GIM 900	GIM 990
Medical Microbiology	10260351	GMB 900	GMB 990
Medical Nuclear Science	10260481	GKW 900	GKW 990
Medical Oncology	10260431	MDN 900	MDN 990
Medical Physics	10260541	GNF 900	GNF 990
Medical Virology	10260491	GVR 900	GVR 990
Mental Health	10260602	GEG 900	GEG 990
Neurology	10260471	NRE 900	NRE 990
Obstetrics and Gynaecology	10260551	OEG 900	OEG 990
Orthopaedics	10260371	ORT 900	ORT 990
Paediatrics	10260511	KGE 900	KGE 990
Pharmacology	10260531	FAR 900	FAR 990
Psychiatry	10260483	PSI 900	PSI 990
Reproductive Biology: Andrology	10260484	RBA 900	RBA 990
Reproductive Biology	10260482	RBI 900	RBI 990
Sports Medicine	10260582	SGN 900	SGN 990
Sports Science	10260581	POK 900	POK 990
Urology	10260391	URO 900	URO 990

II. POSTGRADUATE DIPLOMAS

M.14

A. Postgraduate Diploma in Family Medicine (Code 10220122)

(a) **Admission requirements**

Prospective students must be in possession of a MBChB degree or equivalent qualification. South African candidates must be registered as a medical doctor with the Health Professions Council of South Africa and non-South Africans as a medical doctor with the Licensing authority in their country of origin, and present acceptable documentary proof to this effect.

(b) **Duration**

At least one academic year, or a maximum of five years part-time study by means of distance education.

(c) **Curriculum**

(i) **Compulsory modules**

HAK 780 Philosophy and principles of family medicine 780
FFM 780 Family-orientated patient care 780
FMX 780 Practice management 780
FEM 780 Emergency medicine 780

(ii) **Elective modules**

Choose **four** of the following:
FMD 781 Chronic diseases 781
FMG 781 Geriatrics 781
FMS 781 Sports medicine 781
FMI 781 Infectious diseases 781

FMP 781 Physiology 781
FMA 782 Clinically-applied anatomy 782
FMF 781 Psychiatry 781
FMU 781 Rheumatology 781
Note:
Physicians who wish to complete only one (or a few) of the module(s), will be allowed to register for only those modules.

(d) **Assessment**
Assignments as prescribed by the head of department, must be submitted for each of the eight modules. If a student does not achieve at least 50%, one resubmission is permitted for each module.

(e) **Pass requirement**
A minimum final mark of 50% is required as a pass mark for each module.

(f) **Pass with distinction**
An average of at least 75% in the four compulsory modules and the four elective modules is required to obtain the diploma with distinction.

B. Postgraduate Diploma in General Ultrasound [PGDipGUS] (Code 10220096)

(a) **Admission requirements**
Prospective students must be in possession of an MBChB degree. All candidates must be registered as a medical doctor with the Health Professions Council of South Africa. Due to limited resources a selection procedure might need to be applied.

(b) **Duration**
Two academic years.

(c) **Curriculum**
(i) **Year 1**
(Credit value of each module indicated in brackets)

Module	Module code
Semester 1:	
Applied ultrasound imaging of the body 710	ULT 710 (4)
Applied ultrasound physics 711	ULT 711 (2)
Applied ultrasound pathology 712	ULT 712 (4)
Basic abdominal ultrasound 713	ULT 713 (10)
Semester 2:	
Basic pelvic ultrasound 720	ULT 720 (14)
Ultrasound of small body parts 721	ULT 721 (14)
Elective module: Cardiac ultrasound 722	ULT 722 (12)
Elective module: Obstetrics 723	ULT 723 (12)
Elective module: General 724	ULT 724 (12)
Elective module: Vascular 725	ULT 725 (12)

(ii) **Year 2**
(Credit value of each module indicated in brackets)

Module	Module code
Semester 3:	
Abdominal ultrasound 730	ULT 730 (14)
Obstetric ultrasound 731	ULT 731 (14)
Elective module: Cardiac ultrasound 732	ULT 732 (12)
Elective module: Obstetrics 733	ULT 733 (12)
Elective module: General 734	ULT 734 (12)
Elective module: Vascular 735	ULT 735 (12)
Semester 4:	
Pelvic ultrasound 740	ULT 740 (8)
Elective module: Cardiac ultrasound 742	ULT 742 (12)
Elective module: Obstetrics 743	ULT 743 (12)
Elective module: General 744	ULT 744 (12)
Elective module: Vascular 745	ULT 745 (12)
Final written examination 750	ULT 750 (-)
Practical examination 751	ULT 751 (-)

Select one of the following at the end of the first semester:
Cardiac ultrasound
Obstetrics
General
Vascular

(d) **Total number of credits required**
120

(e) **Examinations and pass requirements**
(i) Students must obtain a minimum mark of 50% in all the practical assessments and assignments assigned every semester.
(ii) A practical examination (ULT 751) will take place at the end of the two-year programme.
(iii) The final written examination (ULT 750) takes the form of a portfolio of the continuous written assessments completed during each module.
(iv) A minimum final mark of 50% is required in both the portfolio and the practical examination to pass.

(f) **Pass with distinction**
An average of at least 75% in all modules is required to obtain the diploma with distinction.

Special refresher course for medical practitioners

A one-week course for medical practitioners is presented annually by the School of Medicine with clinical presentations by various departments in the afternoons and evenings. The School also offers an annual intensive two-day course in one main field of study.
A medical practitioner who wishes to update his or her knowledge, may register as a special postgraduate student in the School of Medicine (Medicine Special). He or she will then have the opportunity to attend demonstrations and discussions and to participate in work as determined by the head of the department concerned.

Visiting postgraduate students (Code 10290001)

A medical practitioner or specialist physician may apply to register as a postgraduate visiting student for non-examination purposes for a period/s of one month or longer as preferred, during which period he or she may work in a department of his/her choice. The nature of this work will be determined by each head of department. Periods of time completed in this way, will not be recognised as periods of formal training for the purposes of specialisation.

Medicine Special (Undergraduate)

Individual modules – not for degree purposes.

Code	Description
10180001	Medicine Special (Undergraduate) Prinshof Campus
10185021	Medicine Special (Cuban students: Prinshof Campus)
10190001	Medicine Foreign (Non-examination purposes) Visiting Undergraduate

Medicine Special (Postgraduate) (Code 10280001)

Registration as a postgraduate candidate with a view to complete examinations in prerequisite subjects for MMed (with approval of the Chairperson of the School and heads of departments in question), until such time as a registrarship becomes available. Neither the University of Pretoria nor the province is under any obligation whatsoever, to appoint such a student as a registrar or to give him or her precedence over other candidates to be appointed.

List of modules offered in the Faculty of Health Sciences

 # = Concurrent registration
() = Examination admission
dpw = discussions per week
GS = combined (final) mark (semester/year mark plus examination mark) of at least 40% - 49%
hpw = hours per week
LP = Lecturer's permission
lpw = lectures per week
ppw = practicals per week
spw = seminars per week
TDH = Permission by head of departmentG
tpw = tutorials per week

AAN 701 Anatomy 701
Academic organisation: Anatomy
Contact time: 1 ppw 1 dpw 3 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 10
Module content:
A complete synopsis of all anatomy modules at postgraduate level published in the study guide for postgraduate anatomy courses is available on request from the Department of Anatomy.

AAN 802 Occupational therapeutic anatomy 802
Academic organisation: Anatomy
Contact time: 4 lpw 1 dpw 1 spw 1 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 28
Module content:
Applied clinical anatomy of structures and systems as set out in the study guide for postgraduate anatomy courses.

AAN 803 Occupational therapeutic anatomy 803
Academic organisation: Anatomy
Contact time: 4 lpw 1 dpw 1 spw 1 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24
Module content:
Applied clinical anatomy of structures and systems as set out in the study guide for postgraduate anatomy courses.

ACC 860 Advanced child nursing science 860
Academic organisation: Nursing Science
Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 50

ACC 861 Advanced child nursing science 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw

Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

ACC 862 Advanced child nursing science 862
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

ACC 870 Advanced child nursing science 870
Academic organisation: Nursing Science
Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 40

ACC 871 Advanced child nursing science 871
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ACC 872 Advanced child nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ACM 870 Postgraduate seminars in public health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 12

ACM 871 Individual study in public health 871
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

ACM 872 Individual study in public health 872
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 20

ACM 873 Individual study in public health 873
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 30

ACN 861 Advanced community nursing science 861
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ACN 862 Advanced community nursing science 862
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ACN 871 Advanced community nursing science 871
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ACN 872 Advanced community nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ACO 171 Academic competency in oral health 171
Academic organisation: Community Dentistry
Contact time: 5 lpw 5 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12
Module content:
This module will introduce the new oral hygiene student to the dental and university environment. It will also serve as the foundation for the total oral hygiene programme and will assist the student to feel more comfortable and settled in the new environment. This module entails the following:

- Professionalism and ethics
- Group work and communication
- Use of the library and correct referencing in assignments
- Academic skills such as academic writing and reading, effective studying and how to do assignments
- Dental terminology
- Dental specialities
- Dental instruments, equipment and materials
- Dental charting
- Infection control
- Occupational health and safety
- Brushing and flossing

ADB 700 Administration and management 700
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

ADM 701 Advanced clinical management in hand therapy 701
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 50
Module content:
Advanced study of hand injuries and conditions and their management. The design and application of treatment programmes in clinical practice. Study and application of evaluation methods and instruments.

ADX 700 Aesthetic dentistry 700
Academic organisation: Odontology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100

AEH 800 Anatomy, embryology and histology 800
Academic organisation: Anatomy
Contact time: 5 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

AEH 801 Anatomy, embryology and histology 801
Academic organisation: Anatomy
Contact time: 1 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 6

AGW 990 Thesis: General health sciences 990
Academic organisation: Health Sciences Dean's Office
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

AHM 771 Research report 771
Academic organisation: School of Health Systems and Public Health
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 30
Module content:
Executive/Emerging Leadership
Participants will be required to write up a project which can consist of a Strategic Plan for Leadership at the workplace which they will be required to implement and monitor over a period of 6 months and then write up the strengths and weaknesses of whether this plan made a difference and to what extent they have been able to influence and change the approach of decision-making at their workplaces. A report from supervisors will be required and the project will include a literature review and a detailed analysis of what was achieved, what value-added difference the project made at the workplace, what were the sustainability factors built into the plan and how it had improved service delivery. The health leadership strategies that arise out of the project will be discussed and how its broader application can be implemented towards transforming healthcare delivery at district or hospital level.

AHM 870 Reproductive health epidemiology 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Period of presentation: Year
Language of tuition: English **Credits:** 10

AKU 100 Occupational science 100
Academic organisation: Occupational Therapy
Contact time: 2 lpw 8 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 25
Module content:
The science and application of food preparation, painting and printing, games and sport, predetermined time standards (MODAPTS), biomechanics, normal development and various elective activities to promote engagement in meaningful occupation. Includes the facilitation of occupational performance as used in development in occupational therapy.

AKU 200 Occupational science 200
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, AKU 100, ART 100, MTL 180, GNK 286
Contact time: 4 ppw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 10
Module content:
The science and application of functional mobility (Activities of Daily Living), woodwork, needlework, appropriate paper technology (APT), gardening, music and dance to promote engagement in meaningful occupation. Includes the design and manufacture of assistive devices and adaptive equipment.

AKU 303 Occupational science 303
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, RPD 200, ART 281, ART 282, ART 283, ART 284
Contact time: 1 ppw 1 dpw 1 lpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 25
Module content:
The study of normal development and the effect of ill health and disability in the areas of play, school/education and leisure. The science and application of occupational therapy principles to promote engagement in meaningful occupation taking into consideration personal and environmental contexts. Includes the pathology, causes, clinical picture and prognosis of selected conditions.

AKU 381 Occupational science 381
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283
Contact time: 2 spw 2 ppw 5 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 25
Module content:
The study of the effect of ill health and disability in the area of Activities of Daily Living

(ADL). The science and application of occupational therapy principles to promote engagement in meaningful occupation, taking into consideration personal and environmental contexts. Includes the pathology, causes, clinical picture and prognosis of selected conditions.

AKU 382 Occupational science 382
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, RPD 200, ART 281, ART 282, ART 283, ART 284
Contact time: 2 ppw 4 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 25
Module content:
The study of the effect of ill health and disability in the area of work. The science and application of occupational therapy principles to promote engagement in meaningful occupation within the context of South African Disability Equity Legislation. Includes the pathology, causes, clinical picture and prognosis of selected conditions.

AKU 400 Occupational science 400
Academic organisation: Occupational Therapy
Prerequisite: ANP 210, RPD 380, AKU 381, AKU 382, ART 381, ART 382, ART 303, AIM 101, ELH 121, ELH 122 and [SEP 110 or ZUL 110]
Contact time: 2 other per week 1 spw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 45
Module content:
Continued study in occupational science with emphasis on the areas of occupation. Integration and application of knowledge and skills in a community fieldwork setting, an elective vocational rehabilitation fieldwork setting and in an elective paediatric fieldwork setting.

AMN 860 Advanced midwifery and neonatal nursing science 860
Academic organisation: Nursing Science
Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 50

AMN 861 Advanced midwifery and neonatal nursing science 861
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

AMN 862 Advanced midwifery and neonatal nursing science 862
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

AMN 870 Advanced midwifery and neonatal nursing science 870
Academic organisation: Nursing Science
Contact time: 2 ppw

Period of presentation: Year
Language of tuition: English **Credits:** 40

AMN 871 Advanced midwifery and neonatal nursing science 871
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

AMN 872 Advanced midwifery and neonatal nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

AMS 860 Advanced medical and surgical nursing (Critical care: General) 860
Academic organisation: Nursing Science
Contact time: 1 other per week 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 50

AMS 861 Advanced medical and surgical nursing science 861
Academic organisation: Nursing Science
Contact time: 1 spw 1 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

AMS 862 Advanced medical and surgical nursing science 862
Academic organisation: Nursing Science
Contact time: 1 lpw 1 spw 1 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

AMS 870 Advanced medical and surgical nursing (Critical care: General) 870
Academic organisation: Nursing Science
Contact time: 2 ppw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 40

AMS 871 Advanced medical and surgical nursing (Critical care: General) 871
Academic organisation: Nursing Science
Contact time: 1 dpw 1 spw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

AMS 872 Advanced medical and surgical nursing (Critical care: General) 872
Academic organisation: Nursing Science
Contact time: 1 spw 1 lpw 1 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ANA 151 Introduction to anatomy 151
Academic organisation: Anatomy
Contact time: 3 lpw 1 dpw 1 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 6
Module content:
A systematic approach to Anatomy, including general terminology, embryology and osteology, with the use of wet specimens. Introductory histology includes cytology, the nucleus and cell division, epithelial tissue, general connective tissue, cartilage and bone.

ANA 152 Anatomy of the limbs 152
Academic organisation: Anatomy
Contact time: 1 ppw 1 dpw 3 lpw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 6
Module content:
Anatomy of the appendicular skeleton
A systematic approach to the anatomy of the muscles, blood vessels, nerve supply, lymph drainage and joints of the upper and lower limbs, as well as surface anatomy, with the use of wet specimens. Introductory histology includes muscle tissue, nerve tissue, and blood and haemopoietic tissue.

ANA 161 Anatomy of the torso 161
Academic organisation: Anatomy
Contact time: 3 lpw 1 dpw 1 ppw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 6
Module content:
A systematic approach to the anatomy of the thorax and its contents, the abdomen and its contents and the pelvis and its contents (organs, vascular systems, nerve supply, lymph drainage, muscles and joints), as well as surface anatomy, with the use of wet specimens. Introductory histology includes the histology of the lungs, liver and kidneys.

ANA 162 Anatomy of the head and neck 162
Academic organisation: Anatomy
Contact time: 3 lpw 1 dpw 1 ppw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 6
Module content:
Anatomy of the head and neck, and neuroanatomy
A systematic approach to the anatomy of the head and neck regions, the senses and the central and peripheral nervous system (cranial nerves, autonomic nervous system), as well as surface anatomy, with the use of wet specimens.

ANA 171 Anatomy 171
Academic organisation: Anatomy
Contact time: 3 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 8
Module content:
The emphasis of the study in anatomy is particularly focused on all aspects of the oral cavity, but certain aspects of the anatomy of the head and neck is also included. This

involves aspects of the osteology of the skull and jaw bones, the anatomy of the temporo-mandibular joint, salivary glands, nose, paranasal sinuses, pharynx, larynx and specific muscle groups as well as the cranial nerves, vascular supply and lymphatic drainage of the head and neck, as well as the radiographic features of some of the above.

ANA 185 Anatomy 185
Academic organisation: Anatomy
Contact time: 8 lpw 1 dpw 3 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 21
Module content:
Systemic clinical anatomy: cardiovascular, respiratory, digestive, urogenital, eye, ear nose and throat, nervous, musculoskeletal, skin and endocrine systems.
Surface and regional anatomy confined to specific diagnostic, therapeutic and emergency procedures.

ANA 700 Anatomy 700
Academic organisation: Anatomy
Contact time: 1 dpw 2 ppw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96
Module content:
A complete synopsis of all anatomy modules at postgraduate level is published in the study guide for postgraduate Anatomy modules, which is available on request from the Department of Anatomy.

ANA 711 Developmental biology 711
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 712 Comparative anatomy 712
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 713 Neuro-anatomy 713
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 714 Human cell biology 714
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 715 Physical anthropology 715
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 716 Human histology 716
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 717 Macro-anatomy 717
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

ANA 770 Anatomy 770
Academic organisation: Anatomy
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: Double medium **Credits:** 12

ANA 800 Anatomy 800
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 802 Anatomy 802
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 803 Anatomy 803
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 804 Anatomy 804
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 805 Anatomy 805
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 807 Anatomy 807
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 808 Anatomy 808
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 809 Anatomy 809
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 870 Anatomy 870
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 871 Anatomy 871
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 872 Anatomy 872
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 873 Anatomy 873
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 874 Anatomy 874
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 875 Anatomy 875
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 876 Anatomy 876
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 877 Anatomy 877
Academic organisation: Anatomy
Contact time: 1 other per week

Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 890 Dissertation: Anatomy 890
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

ANA 891 Anatomy 891
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 893 Anatomy 893
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 894 Anatomy 894
Academic organisation: Anatomy
Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 895 Anatomy 895
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 896 Anatomy 896
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 897 Anatomy 897
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 898 Anatomy 898
Academic organisation: Anatomy
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANA 900 Anatomy 900
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

Module content:
A complete synopsis of all anatomy modules at postgraduate level is published in the Study Guide for Postgraduate Anatomy Courses, which is available on request from the Department of Anatomy.

ANA 990 Thesis: Anatomy 990
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

ANE 801 Anaesthesiology 801
Academic organisation: Anaesthesiology
Prerequisites: FSG 801, CHP 805, FAR 802, FSK 808
Contact time: 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

ANE 900 Anaesthesiology 900
Academic organisation: Anaesthesiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

ANE 990 Thesis: Anaesthesiology 991
Academic organisation: Anaesthesiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

ANN 851 Advanced neonatal nursing science 851
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 23

ANN 852 Advanced neonatal nursing science 852
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 23

ANN 853 Advanced neonatal nursing science 853
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 23

ANN 854 Advanced neonatal nursing science 854
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 23

ANN 860 Advanced neonatal nursing science 860
Academic organisation: Nursing Science
Contact time: 1 other per week 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 50

ANN 861 Advanced neonatal nursing science 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

ANN 862 Advanced neonatal nursing science 862
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

ANN 870 Advanced neonatal nursing science 870
Academic organisation: Nursing Science
Contact time: 2 ppw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 40

ANN 871 Advanced neonatal nursing science 871
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ANN 872 Advanced neonatal nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ANP 210 Anatomical pathology 210
Academic organisation: Anatomical Pathology
Prerequisite: [PHY 131, CMY 151, FSG 161, FSG 162, FTP 100, ANA 152, ANA 162] or [FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283] or [RAN 280, RAW 281, RAW 282, RAW 283]
Contact time: 1 spw 2 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:**10
Module content:
General principles of pathology, including necroses, reversible cell damage, reparation and abnormalities of growth, circulation disturbances, acute and chronic infections, classification of the spreading of tumours and carcinogenesis. Directed course in systematic pathology, with specific reference to cardiovascular system, respiratory system, locomotor system and neurophathology.

ANP 370 Anatomical pathology 370 *(offered as from 2016)*
Academic organisation: Oral Pathology and Oral Biology
Contact time: 4 lpw (first semester) 2 lpw (second semester)
Period of presentation: Year
Language of tuition: English **Credits:** 22
Module content:
General pathology:
Cell injury, death and adaptation; Acute and chronic inflammation; Repair: Cell regeneration, fibrosis and wound healing; Hemodynamic disorders, thrombosis and shock; Disorders of the immune system; Neoplasia; Environmental diseases; General pathology of infectious diseases.
Diseases of the following organ systems:
Blood vessels; Heart; Haemopoietic and lymphoid systems; Respiratory tract; Urinary tract; Gastrointestinal tract; Liver and biliary tract; Pancreas; Male genital system; Female genital system and breast; Endocrine system; Musculoskeletal system; Skin; Nervous system.

ANP 700 Anatomical pathology 700
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

ANP 702 Anatomical pathology 702
Academic organisation: Anatomical Pathology
Contact time: 2 dpw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

ANP 703 Anatomical patholoy 703
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5

ANP 800 Anatomical pathology 800
Academic organisation: Anatomical Pathology
Prerequisites: ANP 801, ANA 800
Contact time: 10 dpw 20 other per week 2 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

ANP 801 Anatomical pathology 801
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 802 Anatomical pathology 802
Academic organisation: Anatomical Pathology
Contact time: 1 other per week 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 803 Anatomical pathology 803
Academic organisation: Anatomical Pathology
Contact time: 1 dpw 1 other per week
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 807 Anatomical pathology 807
Academic organisation: Anatomical Pathology
Contact time: 1 other per week 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 808 Anatomical pathology 808
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 48

ANP 809 Anatomical pathology 809
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 870 Anatomical pathology 870
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 871 Anatomical pathology 871
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 872 Anatomical pathology 872
Academic organisation: Anatomical Pathology
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 874 Anatomical pathology 874
Academic organisation: Anatomical Pathology
Contact time: 2 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 875 Anatomical pathology 875
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 876 Anatomical pathology 876
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 877 Anatomical pathology 877
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 878 Anatomical pathology 878
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 879 Anatomical pathology 879
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ANP 891 Anatomical pathology 891
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 28
Module content:
An in-depth knowledge of the pathology of selected conditions.

ANP 892 Anatomical pathology 892
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

ANP 900 Anatomical pathology 900
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

ANP 990 Thesis: Anatomical pathology 990
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

ANX 861 Advanced nursing management 861
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ANX 862 Advanced nursing management 862
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ANX 871 Advanced nursing management 871
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ANX 872 Advanced nursing management 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ANZ 861 Advanced nursing education 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ANZ 862 Advanced nursing education 862
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ANZ 871 Advanced nursing education 871
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ANZ 872 Advanced nursing education 872
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

AOH 770 Assignment in occupational health 770
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 30

AOU 600 Anaesthesiology, orthopaedics and urology 600
Academic organisation: Orthopaedics
Contact time: 40 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 20

APA 800 General pathology 800
Academic organisation: Anatomical Pathology
Contact time: 2 spw 10 dpw 20 other per week
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

APA 808 General pathology 808
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

APC 861 Primary curative nursing science 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

APC 862 Primary curative nursing science 862
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

APC 871 Primary curative nursing science 871
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

APC 872 Primary curative nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

APN 860 Advanced psychiatric nursing science 860
Academic organisation: Nursing Science
Contact time: 1 lpw 1 ppw 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 50

APN 861 Advanced psychiatric nursing science 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 other per week 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

APN 862 Advanced psychiatric nursing science 862
Academic organisation: Nursing Science
Contact time: 1 other per week 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

APN 870 Advanced psychiatric nursing science 870
Academic organisation: Nursing Science
Period of presentation: Year
Language of tuition: English **Credits:** 40

APN 871 Advanced psychiatric nursing science 871
Academic organisation: Nursing Science
Contact time: 1 lpw 1 other per week 2 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

APN 872 Advanced psychiatric nursing science 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 other per week 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

APY 801 Anatomical pathology 801
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

APY 871 Anatomical pathology (Capita selecta) 871
Academic organisation: Anatomical Pathology
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

ART 100 Occupational therapy 100
Academic organisation: Occupational Therapy
Contact time: 1 other per week 2 dpw 2 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 16
Module content:
The study of occupational therapy roles, scope, domain, core knowledge and professional ethics. Includes the application of the process of occupational therapy intervention, tools of practice and theoretical frameworks.

ART 281 Occupational therapy 281
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, AKU 100, ART 100, MTL 180, GNK 286
Contact time: 2 spw 2 other per week 2 ppw 4 dpw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 12
Module content:
Neurology: The study of occupational therapy evaluation and intervention of neurological conditions in all age groups. Includes the pathology, causes, clinical picture and prognosis of selected conditions.

ART 282 Occupational therapy 282
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, AKU 100, ART 100, MTL 180, GNK 286

Contact time: 4 dpw 2 other per week 2 ppw 2 spw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 12
Module content:
Mental health: The study of occupational therapy evaluation and intervention of psycho-social disorders in all age groups. Includes the pathology, causes, clinical picture and prognosis of selected disorders.

ART 283 Occupational therapy 283
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, AKU 100, ART 100, MTL 180, GNK 286
Contact time: 2 ppw 2 other per week 4 dpw 2 spw
Period of presentation: Quarter 1
Language of tuition: Double medium **Credits:** 12
Module content:
Biomechanics: The study of occupational therapy evaluation and intervention of the conditions of the musculoskeletal system in all age groups. Includes the pathology, causes, clinical picture and prognosis of selected conditions.

ART 284 Occupational therapy 284
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, AKU 100, ART 100, MTL 180, GNK 286
Contact time: 2 other per week 2 spw 4 dpw 2 ppw
Period of presentation: Quarter 2
Language of tuition: Double medium **Credits:** 14
Module content:
Sensory-motor and cognition: The study of occupational therapy evaluation and intervention of sensory-motor and cognitive disorders in all age groups. Includes the pathology, causes, clinical picture and prognosis of selected disorders.

ART 381 Occupational therapy 381
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283
Contact time: 5 dpw 2 spw 2 ppw 20 other per week
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 20
Module content:
Continued study of occupational therapy for patients/clients with physical and neurological conditions. Facilitation of occupational performance through the application of assistive technologies and adaptations. Includes therapeutic apparatus, control interfaces, prosthesis and the selection, design and manufacture of splints.

ART 382 Occupational therapy 382
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283
Contact time: 5 dpw 4 other per week 2 ppw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 20

Module content:
The application of therapeutic group techniques, stress management and interpersonal techniques in counselling. Includes the study of occupational therapy evaluation and intervention of psychiatric disorders in childhood.

ART 401 Occupational therapy 401
Academic organisation: Occupational Therapy
Prerequisite: ANP 210, RPD 380, SEP 110/ZUL 110, AKU 303, AKU 381, AKU 382, ART 381, ART 382, ELH 121, ELH 122, AIM 101.
Contact time: 2 spw 4 other per week 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 45
Module content:
Continued study of occupational therapy for patients/clients with physical and neurological conditions. Integration and application of knowledge and skills in a physical/neurological fieldwork setting.

ART 402 Occupational therapy 402
Academic organisation: Occupational Therapy
Prerequisite: ANP 210, RPD 380, SEP 110/ZUL 110, AKU 303, AKU 381, AKU 382, ART 381, ART 382, ELH 121, ELH 122, AIM 101.
Contact time: 1 dpw 4 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 45
Module content:
Continued study of occupational therapy for mental healthcare users. Integration and application of knowledge and skills in a mental health fieldwork setting.

ART 800 Occupational therapy 800
Academic organisation: Occupational Therapy
Contact time: 1 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 28
Module content:
*Attendance module only
Participation in discussion classes, ward rounds and clinics.

ART 801 Occupational therapy 801
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100
Module content:
An in-depth study of upper limb biomechanics and ergonomics, evaluation and treatment techniques for hand and upper limb injuries and conditions; advanced clinical management.

ART 802 Occupational therapy 802
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100
Module content:
An in-depth study of occupational therapy as applicable to neurological conditions in adults.

ART 803 Occupational therapy 803
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100
Module content:
An in-depth study of determining and treatment of children with different diagnoses.

ART 804 Occupational therapy 804
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100
Module content:
An in-depth study of occupational therapy as applicable to psychiatric disturbances in adults and/or children.

ART 805 Occupational therapy 805
Academic organisation: Occupational Therapy
Contact time: 4 lpw 5 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 100
Module content:
An in-depth study of (i) classification, development of activity participation and its influence on health; (ii) biopsychosocial perspectives on activity participation.

ART 890 Dissertation: Occupational therapy 890
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 200

ART 891 Essay: Occupational therapy 891
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 38

ART 900 Occupational therapy 900
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

ART 990 Thesis: Occupational therapy 990
Academic organisation: Occupational Therapy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

ASW 800 Administrative theory and health-related social sciences 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 70

ATN 860 Advanced medical and surgical nursing science (Critical care: Trauma and emergency nursing science) 860
Academic organisation: Nursing Science

Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 50

ATN 861 Advanced medical and surgical nursing science 861
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

ATN 862 Advanced medical and surgical nursing science 862
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30

ATN 870 Advanced medical and surgical nursing science (Critical care: Trauma and emergency nursing science) 870
Academic organisation: Nursing Science
Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 40

ATN 871 Advanced medical and surgical nursing science (Critical care: Trauma and emergency nursing science) 871
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

ATN 872 Advanced medical and surgical nursing science (Critical care: Trauma and emergency nursing science) 872
Academic organisation: Nursing Science
Contact time: 2 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

ATP 800 Theory in occupational therapy practice 800
Academic organisation: Occupational Therapy
Contact time: 8 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 28
Module content:
(i) Perspectives on activity participation and the study of man as multi-level system.
(ii) Models for activity choices.
(iii) Activity evaluation.

AVN 861 Advanced women's health 861
Academic organisation: Nursing Science
Contact time: 3 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

AVN 862 Advanced women's health 862
Academic organisation: Nursing Science
Contact time: 3 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

AVN 871 Advanced women's health 871
Academic organisation: Nursing Science
Contact time: 3 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

AVN 872 Advanced women's health 872
Academic organisation: Nursing Science
Contact time: 3 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40

BEX 701 Biomechanics and ergonomics 701
Academic organisation: Occupational Therapy
Contact time: 14 lpw 1 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 10
Module content:
Biomechanics of the upper limb and disturbance thereof; the biomechanics of splints. Environmental factors for effective posture and handgrip; relationship between man and environment; disturbance of this relationship.

BFP 700 Industrial physiology and pathology 700
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

BKA 700 Biokinetics 700
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

BMC 701 Hand biomechanics and ergonomics 701
Academic organisation: Occupational Therapy
Period of presentation: Quarter 2
Language of tuition: Double medium **Credits:** 30

BOK 121 Molecule to organism 121
Academic organisation: Anatomy
Contact time: 7 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40
Module content:
(a) Molecule to cell (2 weeks)
The principles of physiology, chemistry and genetics applicable to man. Macro molecules, lipids, carbohydrates and protein. Introductory genetics: molecular

evolution, gene structure and transmission, genetic control of the cell cycle and genetic defects. Impulse conduction and muscle contraction. Nerve potentials.

(b) Cell to tissue (4 weeks)
Gamatogenesis, embryogenesis, embryopathy, histology and incidence of tissue types. The immune system and its components. Tissue specificity, genetic control of expression and factors influencing gene expressions.

(c) Tissue to organism (2 weeks)
Anatomical terminology and introduction to the systemic and functional organisation of the human body. Arrangement of tissues in organs. Life stages of man.

BOK 280 Homeostasis 280
Academic organisation: Forensic Health Sciences
Prerequisite: CMY 151, GNK 120, GNK 127, MLB 111, PHY 131, GNK 128, BOK 121, MGW 112, FIL 155, MTL 180, SMO 121, AIM 101, ELH 111, ELH 112
Contact time: 18 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 42
Module content:

(a) Intermediary metabolism (3 weeks)
Carbohydrate and lipid metabolism; protein and energy metabolism; vitamins and minerals. Integration of metabolism. Practical work: Protein electrophoresis.

(b) Control (3 weeks)
Nerve control; endocrine control.

(c) Internal milieu (3 weeks)
Water balance and blood physiology. Acid-base equilibrium, clinical haematology. Practical work: Haematology.

BOK 281 Pathological conditions and infectious diseases 281
Academic organisation: Anatomical Pathology
Prerequisite: CMY 151, GNK 120, GNK 127, MLB 111, PHY 131, GNK 128, BOK 121, MGW 112, FIL 155, MTL 180, SMO 121, AIM 101, ELH 111, ELH 112
Contact time: 12 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 45
Module content:

(a) General pathology and immunology (4 weeks)
Cell damage; growth and repair; infection; disturbances in circulation; HLA system; immune response; hypersensitivity; auto-immunity and transplant immunology. Anatomy of the lymphatic system.

(b) Principles of malignancies (1 week)
Oncogenesis; terminology and biological behaviour of tumours; principles of therapy.

(c) Principles of infectious diseases (3 weeks)
This module deals with the basic principles and systematic classification and clinical picture of bacteria, viral parasitic and fungal infections of importance to man. The pharmacological aspects of antibacterial and antiviral chemotherapy will also be dealt with. A short introduction to epidemiology will also be presented. The practical aspects of the microbiology which includes virology, will be demonstrated in the practical sessions.

(d) Infectious diseases (2 weeks)
This comprehensive module covers all aspects of the most prominent infectious diseases in man, such as tuberculosis, immuno-deficiency syndrome, malaria, gastro-enteritis, haemorrhagic fever, typhoid, bilharzia and sexually transmitted diseases.

The module is problem-orientated, multidisciplinary and presented in the form of case studies and group discussions. The module also deals with certain important topics such as surgical infections, nosocomial infections, opportunistic infections, trauma and associated infection. The microbiology of special environments will also be discussed.

BOK 283 People and their environment 283
Academic organisation: Psychiatry
Prerequisite: CMY 151, GNK 120, GNK 127, MLB 111, PHY 131, GNK 128, BOK 121, MGW 112, FIL 155, MTL 180, SMO 121, AIM 101, ELH 111, ELH 112
Contact time: 5 spw 5 ppw 8 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 31
Module content:
People and their environment (4 weeks)
Interpersonal skills; contextual and environmental aspects within which patients develop and live with their specific problems; medical ethics with regard to the community, patients and the medical profession; the role and duties of the medical practitioner within the South African legal system, especially with regard to interpersonal violence in society, injuries, the process of dying and death; genetic disability in the South African society; public health and health research in the community.

BOK 284 People and their environment 284
Academic organisation: Forensic Health Sciences
Prerequisite: CMY 151, GNK 120, GNK 127, MLB 111, PHY 131, GNK 128, BOK 121, MGW 112, FIL 155, MTL 180, SMO 121, AIM 101, ELH 111, ELH 112
Contact time: 12 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 31
Module content:
(a) People and their environment (4 weeks)
Interpersonal skills; contextual and environmental aspects within which patients develop and live with their specific problems; medical ethics with regard to the community, patients and the medical profession; the role and duties of the medical practitioner within the South African legal system, especially with regard to interpersonal violence in society, injuries, the process of dying and death; genetic disability in the South African society; public health and health research. This section of the module can only be taken by medical students.
(b) Forensic medicine (Pathology) (2 weeks)
Medicine and law: points of tangency; medical law; thanatology; forensic pathology and forensic medicine.

BOK 285 Pathological conditions 285
Academic organisation: Anatomical Pathology
Prerequisite: CMY 151, FIL 155, MGW 112, MLB 111, MTL 180, PHY 131, AIM 101, BOK 121, GNK 120, GNK 127, GNK 128, ELH 111, ELH 112, LCP 180, SMO 121
Contact time: 18 lpw 1 dpw 3 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 22
Module content:
Basic principles of pathology and immunology applicable to disease processes. The principles of tumour genetics, pathology and dissemination of tumours.

BOK 287 Infectious diseases 287
Academic organisation: Medical Microbiology
Prerequisite: CMY 151, FIL 155, MGW 112, MLB 111, MTL 180, PHY 131, AIM 101, BOK 121, GNK 120, GNK 127, GNK 128, ELH 111, ELH 112, LCP 180, SMO 121
Contact time: 15 lpw 8 ppw 8 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 23
Module content:
The study of micro organisms which cause disease in the human body. This module entails the study of the interaction of micro-organisms with the human host which results in disease.

BOK 380 Abdomen and mamma 380
Academic organisation: Surgery
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, BOK 281, GNK 283, GNK 286
Contact time: 12 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 50
Module content:
(a) Abdomen and abdominal problems
(b) Mamma
A study of the anatomy and functions, as well as the diseases of the different organs in the abdominal cavity including conditions of the abdominal wall. Furthermore, lectures on the clinical conditions of the mamma will be presented.

BOK 382 Pregnancy and neonatology 382
Academic organisation: Obstetrics and Gynaecology
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, GNK 283, GNK 286, (BOK 281 or (BOK 285, BOK 287)), LCP 280.
Contact time: 12 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 55
Module content:
(a) Pregnancy
(b) Neonatology
The study of the natural physiological complexes and pathological conditions concerning pregnancy and birth. Different learning opportunities and situations are used, including prenatal clinics, labour wards and neonatal units. Emphasis is placed on acquiring scientifically-based information, as well as important practical and clinical skills. The behavioural sciences are also included in the block, as well as the social, family and community-related aspects.
(c) Growth and development (2 weeks)
A study of the unique aspects of the physical growth and neuro-development of a normal child. Learning opportunities are presented to the student to identify problems concerning growth and development, as well evaluating and handling children with abnormal growth and development. Emphasis is placed on the prevention, evaluation and handling, as well as the effective treatment with a decided result. This block integrates with the previous block in order to enable the student to understand the continuum of growth and neuro-development from the prenatal to the post-natal milieu.

BOK 480 Genital and urinary tract diseases 480
Academic organisation: Obstetrics and Gynaecology
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 380, SMO 311, SMO 382
Contact time: 12 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 62
Module content:
Module 1: Genital conditions
Module 2: Urinary tract disease
A study of the disorders of the urinary tract and genital systems in males and in females. Theoretical and practical instruction is used to integrate basic science and clinical medicine. Important clinical skills must be mastered.

BOK 482 Nervous system 482
Academic organisation: Neurology
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, GNK 488#, SMO 311, SMO 380, SMO 382
Contact time: 5 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 28
Module content:
Discussion of the important diseases of the central, peripheral and autonomic nervous system with a view to obtaining a total overview of the specific diseases, which will include anatomy, physiology, pathology, pharmacology, clinical neurology, clinical Neurosurgery and neuropaediatrics.

BOS 770 Principles of biostatistics 770
Academic organisation: School of Health Systems and Public Health
Contact time: 5 lpw 10 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Basic introduction to biostatistical theory and use of Stata software to perform basic data analysis.

BOS 774 Seminars in biostatistics 774
Academic organisation: School of Health Systems and and Public Health
Contact time: 1 spw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
Seminar to be written up on a selected topic in biostatistics and presented before the Epidemiology and Biostatistics track staff.

BOS 775 Bioststistics project 775
Academic organisation: School of Health Systems and and Public Health
Contact time: None
Period of presentation: Year
Language of tuition: English **Credits:** 30
Module content:
A project agreed to with the head of the sub-track: Biostatistics. This project should be

written up in the format described in the School's postgraduate brochure. It will be subject to external moderation.

BOS 870 Biostatistics (1) 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

BOS 871 Biostatistics (2) 871
Academic organisation: School of Health Systems and Public Health
Prerequisite: BOS 870
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

BOS 873 Survival analysis 873
Academic organisation: School of Health Systems and Public Health
Prerequisite: BOS 871
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

BPB 800 Principles of practice management 800
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

BRH 700 Vocational rehabilitation 700
Academic organisation: Occupational Therapy
Contact time: 2 spw 4 lpw 2 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30
Module content:
Continued training in the vocational rehabilitation process applied to various diagnostic groups.

BSN 801 Biostatistics and research methodology 801
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

BVC 800 Principles of surgery 800
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 801 Principles of surgery 801
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 802 Principles of surgery 802
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 803 Principles of surgery 803
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 804 Principles of surgery 804
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 805 Principles of surgery 805
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

BVC 806 Principles of surgery 806
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 52

BVC 807 Principles of surgery 807
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 52

BVC 810 Principles of surgery 810
Academic organisation: Surgery
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 36

BVC 811 Principles of surgery 811
Academic organisation: Surgery
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 36

BVC 820 Principles of surgery 820
Academic organisation: Surgery
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 36

BVP 800 Principles of pathology 800
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

CBA 710 Anatomy and principles of surgery 710
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

CBA 800 Anatomy and principles of surgery 800
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

CBR 710 Maxillofacial radiology and principles of surgery 710
Academic organisation: Dental Management Sciences
Contact time: 1 dpw 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

CBR 800 Maxillofacial radiology and principles of surgery 800
Academic organisation: Dental Management Sciences
Period of presentation: Year
Language of tuition: English **Credits:** 24

CCC 770 Complex problem-solving and negotiating, coherence and coordination 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
The public health leader will be equipped with strategies to address difficult and intractable problems at the workplace and assist health workers to become part of the solution by utilising newly acquired problem-solving skills which will have lasting impact in workplace settings. Negotiating techniques will be analysed for different workplace challenges and its application for greater coherence and coordination in the implementation of policy and effective management of its outcomes to improve service delivery.

CDC 770 Introduction to disease prevention and control 770
Academic organisation: Public Health Medicine
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

CDC 771 Principles: Communicable disease control 771
Academic organisation: Public Health Medicine
Prerequisite: CDC 772 CDC 773 CDC 774
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 772 Seminars in tropical health (Agent) 772
Academic organisation: Public Health Medicine
Contact time: 18 spw 3 lpw 1 ppw

Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 773 Seminars in tropical health (Environment) 773
Academic organisation: Public Health Medicine
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 774 Seminars in tropical health (Host) 774
Academic organisation: Public Health Medicine
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 775 Tropical health examination 775
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 0

CDC 870 Introduction to disease control 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

CDC 871 Principle: Communicable disease control 871
Academic organisation: School of Health Systems and Public Health
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 872 Seminars in tropical health (Agent) 872
Academic organisation: School of Health Systems and Public Health
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 873 Seminars in tropical health (Environment) 873
Academic organisation: School of Health Systems and Public Health
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDC 874 Seminars in tropical health (Host) 874
Academic organisation: School of Health Systems and Public Health
Contact time: 18 spw 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDE 870 Principles: Chronic disease epidemiology 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 3 dpw

Period of presentation: Year
Language of tuition: English **Credits:** 5

CDS 770 Clinical tropical medicine 770
Academic organisation: Public Health Medicine
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

CDS 870 Clinical tropical medicine 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

CDS 871 Disease outbreak and control 871
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDS 872 Economic evaluation of disease control intervention 872
Academic organisation: School of Health Systems and Public Health
Contact time: 40 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDS 873 Human nutrition and public health 873
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDT 870 Infectious disease epidemiology 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CDX 870 Prevention and control of HIV/Aids 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CHP 700 Chemical pathology 700
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

CHP 800 Chemical pathology 800
Academic organisation: Chemical Pathology
Prerequisites: FSG 801, CHP 801 or capita selecta from APY 871, HEM 871, GMB 871, GVR 871
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

CHP 801 Chemical pathology 801
Academic organisation: Chemical Pathology
Contact time: 1 spw 1 other per week 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

CHP 802 Chemical pathology 802
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

CHP 805 Chemical pathology 805
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

CHP 809 Chemical pathology 809
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

CHP 871 Chemical pathology (Capita selecta) 871
Academic organisation: Chemical Pathology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 36

CHP 890 Dissertation: Chemical pathology 890
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

CHP 900 Chemical pathology 900
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

CHP 990 Thesis: Chemical pathology 990
Academic organisation: Chemical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

CHR 800 Surgery 800
Academic organisation: Surgery
Prerequisites: ANA 802, FSG 801, ANP 802, BVC 800
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

CHR 801 Surgery 801
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

CHR 802 Surgery 802
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

CHR 805 Paediatric surgery 805
Academic organisation: Surgery
Prerequisites: ANA 802, FSG 801, ANP 802, BVC 800
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

CHR 901 Surgery 901
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

CHR 902 Surgery 902
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

CHR 991 Thesis: Surgery 991
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

CHR 992 Thesis: Surgery 992
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

CLI 870 Principles of clinical epidemiology 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CLI 871 Evidence-based medicine 871
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

CMP 181 Clinical medical practice 181
Academic organisation: Family Medicine
Contact time: 2 dpw 1 ppw

Period of presentation: Semester 1
Language of tuition: English **Credits:** 17
Module content:
Introduction to the Faculty of Health Sciences, curriculum and cultural differences. Basic theory and skills in respect of health assessment and physical examination, health promotion and disease prevention by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised.

CMP 182 Clinical medical practice 182
Academic organisation: Family Medicine
Contact time: 5 ppw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 56
Module content:
Basic theory and skills in respect of health assessment and physical examination, health promotion and disease prevention of the cardio/peripheral, reticulo-endothelial, respiratory, gastro-intestinal, genito-urinary, central nervous system, head, neck, eye, ear, nose, throat, musculo-skeletal, endocrine, dermatological systems by means of group discussion, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised.

CMP 281 Clinical medical practice 281
Academic organisation: Family Medicine
Prerequisite: CMP181, CMP 182
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 68
Module content:
Basic theory and skills in respect of the health promotion, disease prevention, diagnosis and treatment of diseases of cardio/peripheral, vascular, reticulo-endothelial, endocrine, respiratory and gastro-intestinal systems by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 282 Clinical medical practice 282
Academic organisation: Family Medicine
Prerequisite: CMP 281
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 68
Module content:
Basic theory and skills in respect of the health promotion, disease prevention, diagnosis and treatment of diseases of genito-urinary, central nervous system, head, neck, eye, ear, nose, throat, skin and musculo-skeletal systems by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 380 Healthcare systems 380
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: As needed for assignment
Period of presentation: Semester 1
Language of tuition: English **Credits:** 10
Module content:
Study of healthcare systems with emphasis on district health systems.

CMP 381 Women's health 381
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 1 and/or 2
Language of tuition: English **Credits:** 24
Module content:
Theory and skills in respect of the health promotion, disease prevention, diagnosis and treatment of diseases affecting women by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 382 Child health 382
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 1 and/or 2
Language of tuition: English **Credits:** 24
Module content:
Basic theory and skills in respect of the health promotion, disease prevention, diagnosis and treatment of diseases of children by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and inter-disciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 383 Emergency care 1 383
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 dpw 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
Theory and skills training in basic emergency care.

CMP 384 Infectious and chronic diseases 384
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: English **Credits:** 36

Module content:
Theory and skills in respect of the disease prevention, diagnosis and treatment of infectious and chronic diseases by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 385 Anaesthetics 385
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 3 dpw 5 ppw
Period of presentation: Semester 1 and/or 2
Language of tuition: English **Credits:** 12
Module content:
An introduction to the underlying principles of the theory and practice of anaesthesiology applicable to the clinical associate practice.

CMP 386 Mental health 386
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 5 ppw 2 dpw
Period of presentation: Semester 1 and/or 2
Language of tuition: English **Credits:** 16
Module content:
Theory and skills in respect of the disease prevention, diagnosis and treatment of mental health problems by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 387 Orthopaedics 387
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 dpw 5 ppw
Period of presentation: Semester 1 and/or 2
Language of tuition: English **Credits:** 12
Module content:
Theory and skills in respect of the disease prevention, diagnosis and treatment of orthopaedic diseases and problems by means of group discussions, self-tuition and practical sessions in the hospital and skills laboratory. A problem-oriented and interdisciplinary approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CMP 389 Emergency care 2 389
Academic organisation: Family Medicine
Prerequisite: CMP 281, CMP 282, CMP 383, FAR 280
Contact time: 5 ppw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12
Module content:
Theory and practical training in emergency care. A problem-oriented and inter-disciplinary

approach is emphasised. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

CNT 310 Community nutrition 310
Academic organisation: Human Nutrition
Prerequisites: 3rd-year status
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
Community nutrition practice within the larger public health realm. Nutrition within primary healthcare. Nutrition and community development as well as project planning and management

CNT 320 Community nutrition 320
Academic organisation: Human Nutrition
Prerequisites: 3rd-year status
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 3
Module content:
A project on community profiling and primary healthcare nutrition services in South Africa.

CNT 411 Community nutrition 411
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 4 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 25
Module content:
Community nutrition in the South African context, food security, nutrition needs assessments, analysis of cause, intervention with regard to programme planning for nutrition education, food supplementation, various micro-nutrient approaches, application to vulnerable groups.

CNT 480 Community nutrition 480
Academic organisation: Human Nutrition
Prerequisite: CNT 411
Contact time: 5 other per week for 7 weeks
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 35

COU 371 Counselling 371
Academic organisation: Community Dentistry
Prerequisites: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
This module will equip the oral hygiene student with the theoretical underpinning for behavioural change and the necessary skills to counsel a patient on lifestyle behavioural

change. This would include, but not limited to promoting a healthy diet and smoking cessation. This would consist of both lectures and practical sessions with clients/patients.

DBG 795 Essay 795
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 24

DCD 701 Normal development 701
Academic organisation: Occupational Therapy
Contact time: 10 ppw 5 dpw 15 lpw
Period of presentation: Quarter 1
Language of tuition: Double medium **Credits:** 20
Module content:
Sensory development. Motor development. Cognitive/perceptual development. Communication development. Socio-emotional development.

DCD 702 Identification 702
Academic organisation: Occupational Therapy
Contact time: 5 spw 5 dpw 15 lpw 10 ppw
Period of presentation: Quarter 2
Language of tuition: Double medium **Credits:** 30
Module content:
Early identification and the clinical picture of developmental delay of the somoto-sensory system. Early identification and the clinical picture of developmental delay of the motor system. Early identification and the clinical picture of developmental delay of the visual system including pre-perceptual and perceptual skills.

DCD 703 Intervention for developmental disabilities 703
Academic organisation: Occupational Therapy
Contact time: 5 dpw 5 spw 15 lpw 10 ppw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 35
Module content:
Intervention strategies within the school setting. Adaptation of activity programmes. Facilitation of social interaction.

DCD 704 Intervention for disabilities 704
Academic organisation: Occupational Therapy
Contact time: 15 lpw 5 dpw 10 ppw 5 spw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 35
Module content:
Handling techniques for the child with severe disabilities. Positioning for functioning. Environmental adaptations. Play as intervention medium. Integration into main stream schools.

DEG 770 Principles of demography 770
Academic organisation: Public Health Medicine
Contact time: 1 spw 1 ppw 1 dpw 1 lpw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 10

DEG 870 Principles of demography 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 1 spw 1 lpw 1 dpw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 5

DEK 800 Dietetics 800
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

DEK 802 Seminar meetings 802
Academic organisation: Human Nutrition
Contact time: 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15
Module content:
30 hours of scheduled seminar activities. Topics will be evaluated in consultation with the Head: Human Nutrition Division; written evaluation.

DEK 803 Literature studies 803
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15
Module content:
Literature studies in human nutrition.

DEK 804 Immuno-nutrition 804
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 805 Sports nutrition 805
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 806 Nutrition counselling 806
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 807 Diet-related non-communicable lifestyle diseases 807
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 808 Nutrition support 808
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 809 Nutri-genomics 809
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 880 Introduction to research and nutritional epidemiology 880
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

DEK 881 Nutritional assessment 881
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

DEK 882 Literature study 882
Academic organisation: Human Nutrition
Contact time: 1 dpw 1 spw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 883 Micro-nutrient malnutrition 883
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

DEK 884 Early childhood nutrition intervention 884
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1 or Semester 2
Language of tuition: English **Credits:** 20

DEK 885 Human nutrition 885
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12

DEK 886 Diet therapy 886
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12

DEK 887 Applied nutrition 887
Academic organisation: Human Nutrition
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12

DEK 888 Two literature studies 888
Academic organisation: Human Nutrition
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12

DEK 890 Dissertation: Dietetics 890
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 240

DEK 895 Essay: Dietetics 895
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 120

DEK 900 Examination: Dietetics 900
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

DEK 990 Thesis: Dietetics 990
Academic organisation: Human Nutrition
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

DER 800 Dermatology 800
Academic organisation: Family Medicine
Prerequisites: PAG 804, ANA 807, FSG 801
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

DER 900 Dermatology 900
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

DER 990 Thesis: Dermatology 990
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

DGR 900 Diagnostic radiology 900
Academic organisation: Radiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

DGR 990 Thesis: Diagnostic radiology 990
Academic organisation: Radiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

DLM 807 Diagnostic laboratory medicine 807
Academic organisation: Chemical Pathology
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 12

DNE 110 Didactics of nursing education 110
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20
Module content:
Learning strategies and educational media
Developing teaching strategies and designing audiovisual aids and evaluation tools.
Theory of didactics
Cognitive and intellectual functioning of adults. Educational relations.

DNE 120 Didactics of nursing education 120
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 20
Module content:
Curriculum and programme development.
Application of the principles of curriculum building. Management of curricula, programmes and nursing schools.
Student guidance.
Learning problems and remedial practices. Student support systems. Learning theories.

DNE 160 Didactics of nursing education 160
Academic organisation: Nursing Science
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
*Attendance modules only
Nursing education practical work.
Compulsory practical work, including the preparation and presentation of at least ten (10) lectures and five (5) clinical teaching sessions.

DNP 151 Dynamics of nursing practice 151
Academic organisation: Nursing Science
Contact time: 4 lpw 2 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 13
Module content:
Intra and interpersonal dimensions of the nurse.

Self-discovery, self-disclosure and self-awareness, professional socialisation and self-development. Self-evaluation and own journal assessment. Compilation of a personal portfolio. Interpersonal communication and contact: from the self to relationships. Therapeutic use of the self. The therapeutic milieu. Contemporary dilemmas of identity. The multiple self and multiple realities. Communication skills: a communication model for nursing. Management of conflict. Day planning and time management. Development of a personal philosophy. Problem-solving and critical thinking skills.
NB: Only for selected BCur students.

DNP 152 Dynamics of nursing practice 152
Academic organisation: Nursing Science
Contact time: 2 ppw 4 lpw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 13
Module content:
Assessment skills (including the assessment interview, assessment of mental needs, basic examination skills and vital signs), compilation of a database and needs list and the prioritisation of needs. Application of the scientific approach to nursing.
NB: Only for selected BCur students.

DNP 153 Dynamics of nursing practice 153
Academic organisation: Nursing Science
Contact time: 3 lpw 2 ppw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 13
Module content:
Nursing management of emergency situations and disasters in the community. The need for emergency care. Provision of emergency medical services. The impact of emergency situations and disasters on the community. Unique needs in situations of exceptional distress. First aid and basic pre-hospital emergency care. Psychiatric emergencies: suicide risk, aggression, self-destructive behaviour and emotional trauma.
NB: Only for selected BCur students.

DNP 154 Dynamics of nursing practice 154
Academic organisation: Nursing Science
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 13
Module content:
Nursing facilitation of health promotion and illness prevention.
The Primary healthcare (PHC) approach and its underlying principles. Health promotion as part of the PHC approach. Models and approaches, planning and implementation of health promotion and illness prevention programmes. Health screening and its relevant assessment skills. Educational skills and the health service consumer in the teaching-learning situation. Disability and rehabilitation care as preventative and health promotive modality. The principles underlying rehabilitation care. Evaluation of health promotion and illness prevention programmes. Promotion of mental well-being: stress, conflict, substance abuse, violence and physical abuse.
NB: Only for selected BCur students.

DNP 251 Dynamics of nursing practice 251
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 and 122
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 9
Module content:
Nurse-therapeutic contexts.
Ethical-legal aspects and health policy regarding mental illness. Organisation and institutions in psychiatric healthcare. Theoretical foundations of psychiatric nursing practice. The DSM classification system of mental disorders.
NB: Only for selected BCur students.

DNP 252 Dynamics of nursing practice 252
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 and 122
Contact time: 3 lpw 2 ppw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 9
Module content:
Acute and chronic mental disorders.
Nursing process applied in the psychiatric context. Psychopathology, abnormal and deviant behaviour. Common mental disorders: schizophrenia, affective, cognitive and anxiety disorders.
NB: Only for selected BCur students.

DNP 253 Dynamics of nursing practice 253
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 and 122
Contact time: 2 lpw 2 ppw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 9
Module content:
Nurse-therapeutic conversations, group therapy and comprehensive care.
Individual therapy: Facilitative communication and the one-to-one relationship.
Group: the group process, group dynamics, leadership and leadership functions and relevant assessment skills. Mental health education. Therapeutic milieu.
NB: Only for selected BCur students.

DNP 254 Dynamics of nursing practice 254
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 and 122
Contact time: 2 ppw 2 lpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 9
Module content:
Therapeutic skills, mentally challenged and cultural issues.
Crisis intervention. Loss and grieving process. Mentally challenged individuals. Cultural sensitivity in mental health nursing. NB: Only for selected BCur students.

DNP 351 Dynamics of nursing practice 351
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 15
Module content:
Comprehensive family nursing.
Family life and family dynamics. Alternative families and lifestyles. Perspectives and approaches to comprehensive nursing care and support of families. Family violence and pathology. Marriage counselling and family therapy. Families in the perinatal period: unique needs and support (including basic antenatal and postnatal care).
NB: Only for selected BCur students.

DNP 352 Dynamics of nursing practice 352
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 15
Module content:
Comprehensive community nursing.
Perspectives and approaches to comprehensive nursing care and support of communities. Relevant statutory control over primary healthcare (PHC) practices in South Africa. Relevant assessment skills. Sexually transmitted infections and communicable diseases. Therapeutic support of the community. Rehabilitative support of communities in need. Emphasis is placed on the facilitation and support of self-care related to physical, mental and environmental health and well-being.
NB: Only for selected BCur students.

DNP 353 Dynamics of nursing practice 353
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 3 lpw 1 ppw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 15
Module content:
NOTE: DNP 353 must be completed after DNP 354.
Principles of patient care management.
Planning, organising, leading and control in areas of direct patient care. Management in the rendering of patient care. Co-ordination of the multi- and transdisciplinary programme of treatment and rehabilitation. Aspects of professional practice. Introduction to labour law. Inspections of nursing and patient care units. The clinical practice setting as a teaching-learning situation and the principles of adult learning.
NB: Only for selected BCur students.

DNP 354 Dynamics of nursing practice 354
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262

Contact time: 3 lpw 1 ppw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 15
Module content:
Note: DNP 354 must be completed prior to DNP 353.
Primary curative nursing for common and uncomplicated disease conditions.
Common and uncomplicated health problems related to the cardiovascular, respiratory, digestive, neurological, musculo-skeletal and genito-urinary system and infectious diseases of infancy and childhood, adulthood and the elderly. Complaints of the eyes. Musculoskeletal pain/dysfunction and non-traumatic bone/joint pain.
Relevant assessment skills. Applied human nutrition.
NB: Only for selected BCur students.

DNP 451 Dynamics of nursing practice 451
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 10
Module content:
Principles of nursing management and professional leadership in clinical nursing practice. Applied principles of general management, human resources management, marketing and public relations and financial management. Leadership and leadership development: perspectives, trends and contemporary practice issues. Principles of management in selected emergency situations. Labour law and labour relations.
NB: Only for selected BCur students.

DNP 452 Dynamics of nursing practice 452
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 10
Module content:
Principles of professional practice, nursing staff development and teaching in clinical nursing practice.
Nursing science, ethics and the law. Contemporary practice issues derived from the ethos and professional practice of nursing. Professional self-regulation and the organised nursing profession. Private nursing practice. Planning, implementation and evaluation of clinical teaching and in-service training programmes, continuing professional development and life-long learning.
NB: Only for selected BCur students.

DNP 800 Advanced dynamics of nursing practice 800
Academic organisation: Nursing Science
Contact time: 2 dpw 6 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

DSB 700 Dosage planning 700
Academic organisation: Radiography
Contact time: 1 lpw 1 ppw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

DTE 880 Sports dietetics 880
Academic organisation: Human Nutrition
Contact time: 8 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12

DTT 110 Dietetic profession 110
Academic organisation: Human Nutrition
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 8
Module content:
Philosophy, development and challenges of the dietetic profession in a South African context.

DTT 120 Dietetic profession 120
Academic organisation: Human Nutrition
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 16
Module content:
Philosophy, development and challenges.

DTT 121 Application of communication principles in dietetics 121
Academic organisation: Human Nutrition
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 8
Module content:
Oral and written application of communication principles in dietetics.

DTT 222 Dietetic application of communication principles 222
Academic organisation: Human Nutrition
Prerequisite: 2nd-year status
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 18
Module content:
The application of communication principles in nutrition instruction.
Theoretical frameworks, knowledge and skills, planning and evaluation of content; teaching aids.

DTT 310 Dietetic counselling 310
Academic organisation: Human Nutrition
Prerequisite: Third-year status
Contact time: 2 lpw 1 dpw

Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 20
Module content:
Theory of counselling. Interviewing: Interview; the consultation process; verbal, written and non-verbal communication to clients, patients, employees as individuals or groups in different stages of the life cycle in health and disease in homogenic and trans/multi-cultural situations by means of applicable theoretical frameworks.

DTT 320 Clinic and discussion class 320
Academic organisation: Human Nutrition
Prerequisite: DTT 310
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 6
Module content:
Practice training: Management of a dietetics clinic. Practising the consultation process and practice management in a dietetics clinic.

DTT 411 Dietetics profession 411
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 5
Module content:
Dietetics profession.

DTT 480 Integration in dietetics 480
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 1 spw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 4
Module content:
*Attendance module only

EBD 800 Epidemiology theory, biostatistics and demography 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 70

ECI 801 Critical theoretical analysis in ECI 801
Academic organisation: Centre for Augmentative and Alternative Communication
Period of presentation: Year
Language of tuition: English **Credits:** 90

ECI 860 Child health 860
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 1 dpw 5 other per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 861 Communication pathology 861
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 862 Education psychology 862
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 863 Nursing science 863
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week 5 other per week 1 dpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 865 Occupational therapy 865
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 866 Physiotherapy 866
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week 5 other per week 1 dpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 867 Severe disability 867
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 868 Social work 868
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 1 dpw 5 web-based periods per week 2 other per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 869 Audiology 869
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week 1 dpw 2 other per week
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

ECI 872 Collaborative problem solving 872
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 web-based periods per week 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 20

ECI 873 Measurement in ECI 873
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 20

ECI 874 Evaluation and intervention 874
Academic organisation: Centre for Augmentative and Alternative Communication
Contact time: 5 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20

EHM 770 Basis in environmental health 770
Academic organisation: School of Health Systems and Public Health
Contact time: 1 other per week 1 lpw 1 spw 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5

EHM 771 Health risk assessment 771
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

EHM 870 Basis of environmental health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 dpw 1 lpw 1 other per week 1 ppw 1 spw
Period of presentation: Year
Language of tuition: English **Credits:** 5

EHM 871 Health risk assessment 871
Academic organisation: School of Health Systems and Public Health
Prerequisite: EOH 871
Period of presentation: Year
Language of tuition: English **Credits:** 10

EHM 872 Methods of exposure assessment 872
Academic organisation: School of Health Systems and Public Health
Prerequisite: EOM 870
Period of presentation: Year
Language of tuition: English **Credits:** 10

EHM 873 Environmental chemical pollution and health 873
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

END 700 Endodontics 700
Academic organisation: Odontology
Contact time: 1 dpw 1 spw 5 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

EOC 770 Ethics and values in healthcare, organisational behaviour change and strategy in health 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
The delivery of healthcare services requires high ethical values and standards to promote quality of life which improve patient outcomes. The innovative and creative leader in the health sector will be provided with skills in dealing with organisational behaviour patterns which influence behaviour change and policy strategy. The module will focus on the difficulties in changing workplace behaviour and mechanisms of how to sustain change strategies which are workable and enabling.

EOH 770 Introduction to environmental and occupational health 770
Academic organisation: Public Health Medicine
Contact time: 1 ppw 1 other per week 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

EOH 870 Introduction to environmental and occupational health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

EOH 871 Introduction to toxicology 871
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

EOM 870 Environmental epidemiology 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: EHM 871
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

EPI 800 Epidemiology 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24
Module content:
- The following epidemiology modules are compulsory:
- Introduction to health measuring and informatics
- Basic epidemiology and biostatistics
- Analytical epidemiology
- Taking of surveys
- Introduction to health informatics
- Basic quality assurance

- Intermediary biostatistics
- Introduction to health system research
- Research ethics
- Obtaining research awards
- Scientific writing and reporting
- Introduction to quantitative research
- Community participation in research
- Experimental epidemiology: clinical experiments

EPI 890 Dissertation: Epidemiology 890
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

EPI 900 Epidemiology 900
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 1

EPI 990 Thesis: Epidemiology 990
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 480

EPM 870 Analytical epidemiology 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: BOS 871 and EPM 871
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

EPM 871 Epidemiological study design 871
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5

EPM 873 Conducting surveys 873
Academic organisation: School of Health Systems and Public Health
Prerequisite: BOS 870
Contact time: 12 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

EPM 874 Disease surveillance 874
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

FAR 171 Pharmacology 171
Academic organisation: Pharmacology
Contact time: 2 lpw

Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 5
Module content:
The module will provide the oral hygiene student with appropriate pharmacological knowledge and understanding of drugs that necessitate treatment modification to the patient's treatment plan. The oral hygiene student will be equipped with a practical understanding of pharmaco-therapeutic concepts which are essential for prescribing medicaments used for oral hygiene, and to make an informed choice of a safe suitable local anaesthetic drug for the administering thereof to a patient. He/she must be able to apply knowledge of pharmacology in the clinical setting and in performing procedures pertaining to the scope of oral hygiene.

FAR 180 Pharmacology 180
Academic organisation: Pharmacology
Contact time: 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 2
Module content:
Introductory principles to clinical pharmacotherapy. Core pharmacotherapy and applicable clinical aspects of the most general and prominent diseases and conditions.

FAR 280 Pharmacology 280
Academic organisation: Pharmacology
Prerequisite: FAR 180
Contact time: 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 2
Module content:
Introductory principles to clinical pharmacotherapy. Core pharmacotherapy and applicable clinical aspects of the most general and prominent diseases and conditions.

FAR 370 Clinical pharmacotherapy 370
Academic organisation: Pharmacology
Prerequisite: BOK 280, (BOK 281 or (BOK 285,287)), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 2 lpw 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 8
Module content:
Introductory principles of clinical pharmacotherapy in view of applicable patient problems, receptors for medicines, principles of structure activity relationships, dynamic and kinetic principles to bring pharmacological principles and clinical therapy together in a problem-based curriculum.

FAR 380 Dispensing 380
Academic organisation: Pharmacology
Prerequisite: CMP 281, CMP 282, FAR 280
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 4
Module content:
To attain the necessary knowledge and skills needed to successfully apply for a license

to dispense, the module focuses on the minimum criteria set by the South African Pharmacy Council. Particular focus is placed on practical dispensing skills, integration of knowledge and skills, appropriate prescribing, legally sound prescription methods and proper communication.

FAR 381 Pharmacology 381
Academic organisation: Pharmacology
Prerequisite: FLG 211, FLG 212, FLG 221, FLG 222 GS
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 18
Module content:
Introduction, receptors, antagonism, kinetic principles, drugs that impact upon the autonomic and central nervous system, pharmacotherapy of hypertension, angina pectoris, myocardial infarction, heart failure, arrhythmias, and epilepsy. Diuretics, glucocorticosteroids, local anaesthetics, anaesthetic drugs, analgesics, iron and vitamins, oncostatics and immuno suppressants.

FAR 382 Pharmacology 382
Academic organisation: Pharmacology
Prerequisite: FAR 381, FLG 211, FLG 212, FLG 221, FLG 222 GS
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 18
Module content:
Hormones, drugs that act on the histaminergic, serotonergic, and dopaminergic receptors. Pharmacotherapy of diabetes mellitus, schizophrenia, depression, obesity, anxiety, insomnia, gastro-intestinal diseases. Anticoagulants, antimicrobial drugs.

FAR 705 Pharmacology 705
Academic organisation: Pharmacology
Prerequisite: As per yearbook
Contact time: 6 lpw 16 ppw 2 spw
Period of presentation: Year
Language of tuition: English **Credits**: 96
Module content
Covers the following topics: Immunology, pain and inflammation, pharmacokinetics, wound healing, proteomics, isotopes in medicine, pharmacogenetics, law, pharmaceutics, traditional medicines, plant-based medicines, lifestyle disorders, drug/drug interactions, drug adverse effects, malaria, cancer and malignancies and psycho/neuropharmacology, Good Clinical Practice (GCP), Good Laboratory Practice (GLP), Therapeutic Drug Monitoring (TDM), Overview of dispensing medicine. Practicals are as per study guide.

FAR 802 Pharmacology 802
Academic organisation: Pharmacology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FAR 803 Pharmacology 803
Academic organisation: Pharmacology

Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FAR 804 Pharmacology 804
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FAR 805 Pharmacology 805
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

FAR 806 Pharmacology 806
Academic organisation: Pharmacology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36
Module content:
*Attendance module only

FAR 809 Pharmacology 809
Academic organisation: Pharmacology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

FAR 870 Pharmacology 870
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

FAR 871 Pharmacology 871
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 35

FAR 872 Pharmacology: Introduction to laboratory research and techniques 872
Academic organisation: Pharmacology
Contact time: 4 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12
Module content:
Content of syllabus is available on request from the head of department.

FAR 873 Applied pharmacology 873
Academic organisation: Pharmacology
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 5

FAR 880 Pharmacology 800
Academic organisation: Pharmacology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FAR 890 Dissertation: Pharmacology 890
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 240

FAR 900 Pharmacology 900
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

FAR 990 Thesis: Pharmacology 990
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

FEG 881 Core concepts in philosophy and mental health 881
Academic organisation: Psychiatry
Contact time: 2 other per week 1 web-based period per week 2 spw 2 lpw
Period of presentation: Semester 1 and Semester 2
Language of tuition: Double medium **Credits:** 10

FEG 882 Philosophy of science and mental health 882
Academic organisation: Psychiatry
Contact time: 2 other per week 1 web-based period per week 2 lpw 2 spw
Period of presentation: Semester 1 and Semester 2
Language of tuition: Double medium **Credits:** 10

FEG 883 Philosophy of mind and mental health 883
Academic organisation: Psychiatry
Contact time: 2 lpw 1 web-based period per week 2 spw 2 other per week
Period of presentation: Semester 1 and Semester 2
Language of tuition: Double medium **Credits:** 10

FEG 884 Ethics, values and mental health 884
Academic organisation: Psychiatry
Contact time: 2 lpw 1 web-based period per week 2 other per week 2 spw
Period of presentation: Semester 1 and Semester 2
Language of tuition: Double medium **Credits:** 10

FEG 890 Dissertation: Philosophy and ethics of mental health 890
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 140

FEG 900 Health ethics 900
Academic organisation: Psychiatry

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

FEG 990 Thesis: Health ethics 990
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

FEM 780 Emergency medicine 780
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Study of airway; airway ventilation breathing; circulation; disorientation and evaluation.

FFD 801 Pharmacokinetics and pharmacodynamics 801
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

FFD 802 Pharmacokinetics and pharmacodynamics 802
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

FFD 803 Pharmacokinetics and pharmacodynamics 803
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

FFM 780 Family-oriented patient care 780
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Study of the family as the object of care; family systems theory; tools for family-oriented care; family life-cycle; ethics of treating families; family conference; the family and chronic illness; family violence and alcohol abuse in the family.

FIA 702 Financial administration 702
Academic organisation: Occupational Therapy
Contact time: 4 dpw 2 lpw 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30
Module content:
Financial statements; budget; decision-making; behaviour of costs; cost-volume relation; allocation of costs; manufacturing costs, process of costs; activity costs; overhead costs; business planning.

FIP 701 Physiology and patho-physiology 701
Academic organisation: Physiology
Contact time: 1 dpw 1 ppw 3 lpw

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Physiology of the integration of hand function; brain plasticity, pain. Regeneration of skin, bone, muscle and nerve tissue; infection; inflammation.

FLG 171 Physiology 171
Academic organisation: Physiology
Contact time: 1 ppw 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 8
Module content:
Physiology is the study of organisms at a cellular and system level. Physiology will provide the oral hygiene student with the necessary knowledge to understand functioning and abnormalities of the human body, the vital organs necessary for normal functioning and the systems that provide essential communication for the control of the body functions and homeostasis. The module content will serve as preknowledge for clinical subjects.

FLG 211 Introductory and neurophysiology 211
Academic organisation: Physiology
Prerequisite:
Contact time: 2 lpw 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
Orientation in physiology, homeostasis, cells and tissue, muscle and neurophysiology, cerebrospinal fluid and the special senses.
Practical work: Experimental physiology to complement the theory.

FLG 212 Circulatory physiology 212
Academic organisation: Physiology
Prerequisite: CMY 117 GS, CMY 127 GS, MLB 111 GS, PHY 131 GS
Contact time: 2 lpw 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
Body fluids; haematology; cardiovascular physiology and the lymphatic system. Practical work: Practical exercises and experimental physiology.

FLG 221 Lung and renal physiology, acid-base balance and temperature 221
Academic organisation: Physiology
Prerequisite: FLG 211, FLG 212
Contact time: 2 lpw 1 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12
Module content:
Structure, gas exchange and secretory functions of the lungs; build, excretory and non-urinary functions of the kidneys, acid-base balance, as well as the skin and body temperature control.
Practical work: Practical exercises and experimental physiology.

FLG 222 Digestion, endocrinology and reproductive system 222
Academic organisation: Physiology
Prerequisite: FLG 211, FLG 212
Contact time: 1 ppw 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12
Module content:
Nutrition, digestion and metabolism; hormonal control of the body functions and the reproductive system.
Practical work: Experimental physiology.

FLG 312 Developmental physiology 312
Academic organisation: Physiology
Prerequisite: BCM 251 GS, BCM 252 GS, BCM 261 GS, BCM 262 GS and FLG 221 AND FLG 222
Contact time: 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 9
Module content:
Study of the physiological development and adaptations from the foetus through to the aged.

FLG 314 Immunology 314
Academic organisation: Physiology
Prerequisite: BCM 251 GS, BCM 252 GS, BCM 261 GS, BCM 262 GS and FLG 221 AND FLG 222
Contact time: 1 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 9
Module content:
Introduction to basic, applied and integrated immunological mechanisms.

FMA 781 Clinically applied anatomy 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
Study of the upper limb, including the breast; head and neck; thorax; abdomen; pelvis; lower limb; embryology and histology.

FMA 782 Clinically applied anatomy 782
Academic organisation: Family Medicine
Contact time: 1 spw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10

FMC 781 Cardiovascular diseases 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

FMD 781 Chronic diseases 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Study of diabetes mellitis, asthma, epilepsy, hypertension, cardiac failure, obesity and chronic pain.

FME 781 Medical ethics 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

FMF 781 Psychiatry 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Psychiatry in family practice
Study of depression, anxiety; suicide; the difficult adolescent; substance use and abuse; schizophrenia; dementia and delirium.

FMG 781 Geriatrics 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Study of theories of ageing; physiology of ageing; demography; presentation of disease in the aged; cardiovascular system; conditions of the joints; respiratory system; central and peripheral nervous system; digestive tract; urinary tract; endocrine system; haematology; skin and sense organs; psycho-geriatrics; falls in the elderly; infections; cancer; terminal care; nutrition; rehabilitation; drugs and preventive geriatrics.

FMI 781 Infectious diseases 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Introduction; study of contagious disease important to the traveller; contagious diseases in the tropical regions; viral illnesses in children; fever of unknown origin; sexually transmitted diseases; haemorrhagic fever; infective diarrhoea; meningitis; leprosy; HIV/Aids; tuberculosis; rabies; school attendance and infectious diseases; community-acquired pneumonia (GVP); acute virus hepatitis; rational use of antibiotics and other exogenous infections.

FMP 781 Physiology 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 10
Module content:
Study of the nervous system; muscle physiology (skeletal, smooth and heart muscle); endocrine physiology; physiology of reproduction (age-related); cardiovascular

physiology; thermoregulation; nutrition and digestion; acid-base balance; kidney, salt and water balance; blood and respiration.

FMS 781 Sports medicine 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
An approach to sports injuries: concepts of training and fitness; energy systems and transfer of energy, nutrition, health and training; special investigations; injury; strapping and wrapping; stress fractures; examination and clinical conditions of different areas, upper limb, lower limb, pelvis; trunk and head: special considerations of age and gender – the child, the female athlete and the elderly exerciser; exercising under certain conditions – heat, cold, underwater altitude and time zones; sport and medical conditions – diabetes mellitus; HIV/Aids; drugs, alcohol; the tired athlete; concussion/boxing; exercise induced headache and medical coverage of sports events.

FMU 781 Rheumatology 781
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Study of rheumatoid arthritis; osteoarthritis; gout; ceronegative spondilo-arthropathy; collagen diseases; lower back pain; fibromyalgia and osteoporosis.

FMX 780 Practice management 780
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Study of human resource management; financial management; auditing of management and services management.

FOT 700 Forensic odontology 700
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

FSA 806 Physiotherapeutic anatomy 806
Academic organisation: Anatomy
Contact time: 1 dpw 1 spw 4 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 807 Physiotherapeutic anatomy 807
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 808 Physiotherapeutic anatomy 808
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 809 Physiotherapeutic anatomy 809
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 870 Physiotherapeutic anatomy 870
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 871 Physiotherapeutic anatomy 871
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 872 Physiotherapeutic anatomy 872
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

FSA 873 Physiotherapeutic anatomy 873
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

FSA 875 Physiotherapeutic anatomy 875
Academic organisation: Anatomy
Contact time: 4 lpw 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSA 876 Physiotherapeutic anatomy 876
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

FSG 161 Physiology 161
Academic organisation: Physiology
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 12
Module content:
Introduction and neurophysiology: homeostasis, eytology and histology, muscles and neurophysiology, cerebrospinal fluid, the special senses.

FSG 162 Physiology 162
Academic organisation: Physiology
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 12
Module content:
Circulatory physiology: Body fluids, haematology, body defence mechanisms, cardio-vascular physiology, lymphatic system.

FSG 185 Physiology 185
Academic organisation: Physiology
Contact time: 8 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
Introduction to Physiology, homeostasis and body fluids, cell physiology, haematology and immunology, cardiovascular system, respiration, neurophysiology and senses, gastrointestional physiology and nutrition, kidneys, endocrinology, reproduction, skin and body temperature.

FSG 251 Physiology 251
Academic organisation: Physiology
Prerequisite: RAN 100, RFI 110, FSG 161, FSG 162, MTL 180, RAW 180, RAW 182
Contact time: 1 dpw 1 ppw 4 lpw
Period of presentation: Quarter 1
Language of tuition: Double medium **Credits:** 6
Module content:
Structure, gas exchange and secretory functions of the lungs; build, excretory and non-urinary functions of the kidneys, acid-base balance, as well as the skin and body temperature control.
Practical work: lung functions/spirometry, kidney function tests – side-room urine examinations. Digestion. Metabolism. Pathophysiology.

FSG 252 Physiology 252
Academic organisation: Physiology
Prerequisite: RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180
Contact time: 1 dpw 4 lpw
Period of presentation: Quarter 2
Language of tuition: Double medium **Credits:** 6
Module content:
Nutrition, digestion and metabolism, hormonal control of body functions and the reproductive systems.
Practical work: endocrine system, reproductive system, pregnancy test.

FSG 261 Physiology 261
Academic organisation: Physiology
Prerequisite: PHY 131, CMY 151, ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, FTP 100
Contact time: 2 lpw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 6
Module content:
Special neuro and muscle physiology.

FSG 262 Physiology 262
Academic organisation: Physiology
Prerequisite: RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180
Contact time: 3 lpw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 6
Module content:
Applied pathophysiology.

FSG 270 Physiology 270 (*offered as from 2015*)
Academic organisation: Physiology
Contact time: 5 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 72
Module content:
Metabolism; neurophysiology; the somatic sensory system, pain and special senses; muscle physiology; haematology; cardiovascular system; respiratory system; the urinary system; the gastro intestinal system; the endocrine system; the reproductive system; temperature homeostasis, sickness behaviour and skin; immunology; bone and cartilage metabolism and fracture healing; and pathophysiology.

FSG 370 Applied physiology 370
Academic organisation: Physiology
Prerequisite: BOK 280, (BOK 281 or BOK 285,287)), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 1 dpw 4 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
Consult the Department of Physiology.

FSG 710 Research methodology: Physiology 710
Academic organisation: Physiology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

FSG 712 Cellular physiology 712
Academic organisation: Physiology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

FSG 720 Applied physiology 720
Academic organisation: Physiology
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

FSG 771 Basic physiology 771
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FSG 773 Research physiology 773
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FSG 774 Physiology: Practical 774
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FSG 801 Physiology 801
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FSG 806 Physiology 806
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

FSG 808 Physiology 808
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

FSG 809 Physiology 809
Academic organisation: Physiology
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FSG 871 Physiology 871
Academic organisation: Physiology
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15

FSG 872 Physiology 872
Academic organisation: Physiology
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15

FSG 873 Physiology 873
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: English **Credits:** 36

FSG 874 Physiology 874
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15

FSG 875 Physiology 875
Academic organisation: Physiology
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15

FSG 876 Physiology 876
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FSG 877 Physiology 877
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15

FSG 878 Physiology 878
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15

FSG 879 Physiology 879
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: English **Credits:** 24

FSG 880 Sports physiology 880
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

FSG 881 Physiology 881
Academic organisation: Physiology
Contact time: 1 dpw 1 lpw 1 spw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 28
Module content:
An in-depth knowledge of applicable physiological aspects.

FSS 480 Internship training in food service system management 480
Academic organisation: Human Nutrition
Contact time: 5 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 35

FTA 801 Applied electro-biomechanics 801
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 802 Applied electro-biomechanics 802
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 803 Applied electro-biomechanics 803
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 804 Applied electro-biomechanics 804
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 805 Applied electro-biomechanics 805
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 806 Applied electro-biomechanics 806
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 807 Applied electro-biomechanics 807
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTA 808 Applied electro-biomechanics 808
Academic organisation: Physiotherapy
Contact time: 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

FTB 801 Physiotherapy 801
Academic organisation: Physiotherapy
Contact time: 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 802 Physiotherapy 802
Academic organisation: Physiotherapy
Contact time: 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 803 Physiotherapy 803
Academic organisation: Physiotherapy
Contact time: 4 ppw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 804 Physiotherapy 804
Academic organisation: Physiotherapy
Contact time: 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 805 Physiotherapy 805
Academic organisation: Physiotherapy
Contact time: 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 806 Physiotherapy 806
Academic organisation: Physiotherapy
Contact time: 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 807 Physiotherapy 807
Academic organisation: Physiotherapy
Contact time: 1 lpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTB 808 Physiotherapy 808
Academic organisation: Physiotherapy
Contact time: 4 ppw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 35

FTK 801 Clinical physiotherapy: Surgery 801
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 802 Clinical physiotherapy : Internal medicine 802
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 803 Clinical physiotherapy: Paediatrics 803
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 804 Clinical physiotherapy: Neurology 804
Academic organisation: Physiotherapy
Contact time: 1 lpw 6 dpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 805 Clinical physiotherapy: Women's health 805
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 806 Clinical physiotherapy: Orthopaedics 806
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 807 Clinical physiotherapy: Orthopaedic manual therapy 807
Academic organisation: Physiotherapy
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTK 808 Clinical physiotherapy: sports medicine 808
Academic organisation: Physiotherapy
Contact time: 1 lpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 160

FTP 100 Physiotherapy 100
Academic organisation: Physiotherapy
Contact time: 4 ppw 1 web-based period per week 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 15
Module content:
General introduction and orientation to physiotherapy, PBL skills and evidence-based approach to physiotherapy. Introduction to biomechanics, terminology, passive movements, measurement of the range of movement, clinical visits and patient-handling.
Kinetics: axis, planes, levers, effect of gravity on the human body.
Applied electrobiomechanics: introduction to radiation, high-frequency, ultrasound, shortwave diathermy, laser, ultraviolet, infrared radiation.
Introduction to manual therapy: general introduction to massaging, evaluation of soft tissue, types applications and effects of massage techniques on various types of tissue, modalities application to the human body.
Human movement science: introduction to biomechanics, study of human movement, functional evaluation, muscle-testing, types of muscular activity, kinematics: analysis of movement, motor control and posture, characteristics of normal movement. Applied electrobiomechanics, introduction to medium frequency currents, Russian currents. Pulmonology.
Note: Physiotherapy is presented in a problem-based and integrated manner.

FTP 203 Physiotherapy 203
Academic organisation: Physiotherapy
Contact time: 1 web-based period per week 4 ppw 8 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 52
Module content:
The problem-based learning approach to the principles of human movement science manual therapy for soft tissue and electro-biomechanics. This approach is applied by using selected clinical conditions of the thorax, pelvis and hip-joint over the total life spectrum.
The problem-based approach to the treatment of selected clinical conditions of the knee, ankle and foot complex, the pectoral girdle and gleno-humeral joint, the elbow, forearm

and wrist and hand complex over the total life-cycle, through the application of the principles of human movement science manual therapy for soft tissue and electro-biomechanic.

FTP 220 Physiotherapy clinical practice 220
Academic organisation: Physiotherapy
Prerequisite: PHY 131, CMY 151, FSG 161, FSG 162, ANA 151, FTP 100, ANA 152, SLK 110, ANA 161, ANA 162, AIM 101, ELH 121 and 122
Contact time: 1 lpw 1 other per week
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Study of the epidemiology, prevalence and incidence of selected clinical conditions. Students acquire clinical experience through the treatment of selected clinical conditions in various healthcare institutions, practices and clinics.
A theoretical and clinical examination will take place after conclusion of the module.

FTP 300 Physiotherapy 300
Academic organisation: Physiotherapy
Prerequisite: FSG 251, FSG 252,FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 241, POL 251, FTP 231
Contact time: 2 lpw 3 web-based periods per week 2 other per week 3 ppw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 40
Module content:
Theory of comprehensive physiotherapeutic management (prevention, promotion, restoration, and rehabilitation) of notifiable, non-notifiable and infectious conditions.
Diseases of lifestyle, chronic disease, the impact of HIV on disability and on patients with trauma, mental health. Impact of physical/economic/political/
psychosocial environment on health and well-being, health promotion and development and sports science.
Comprehensive physiotherapy management is applied to infant health, during childhood, adolescent health, women's and men's health, health and disease in middle age and geriatrics.

FTP 301 Physiotheraphy clinical practice 301
Academic organisation: Physiotherapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 231, FTP 241, POL 251
Contact time: 2 web-based periods per week 2 ppw 1 dpw 3 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 60
Module content:
Comprehensive clinical management of patients with communicable and non-communicable diseases and conditions, patients with an impairment or disability as a result of the impact of physical/economic/political and psychosocial environment on health and well-being, health promotion, and development and sports science. Comprehensive clinical management is applied where relevant on infant health, during childhood, adolescence, in women's and men's health, and health and disease in middle age and geriatrics, diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and/or a mental health condition.

FTP 400 Physiotherapy 400
Academic organisation: Physiotherapy
Prerequisite: MRZ 310, RHC 451, RHC 452, FAR 381, FAR 382, FTP 300, FTP 301, POL 300
Contact time: 1 web-based period per week 2 ppw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30
Module content:
Advanced comprehensive physiotherapeutic management of communicable and non-communicable diseases and conditions. This includes diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and mental health. Impact of physical/economic/political/psychosocial environment of health and well-being, health promotion and development, and sports science. The comprehensive physiotherapeutic management is applied to patients of all ages where relevant: in infant health, childhood, adolescent health, women's and men's health, health and disease in middle age and geriatrics and is based on the epidemiology of disease. The module includes 800 hours clinical experience in a variety of healthcare scenarios.
Examination period: October/November.

FTP 401 Physiotherapy research 401
Academic organisation: Physiotherapy
Prerequisite: MRZ 310, RHC 451, RHC 452, FAR 382, FAR 381, FTP 300, FTP 301, POL 300
Contact time: 1 web-based period per week 3 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
The theoretical and practical application of research principles in physiotherapy and submission of an article based on research.
Examination period: October/November.

FTP 402 Physiotherapy clinical practice 402
Academic organisation: Physiotherapy
Prerequisite: MRZ 310, RHC 451, RHC 452, FAR 381, FAR 382, FTP 300, FTP 301, POL 300
Contact time: 1 web-based period per week 2 dpw 1 other per week
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 88
Module content:
Comprehensive clinical management of patients with communicable, non-communicable diseases and conditions, patients who have an impairment or disability due to the impact of physical/economic/political/psychosocial environment on health and well-being. Health promotion, and development and sports science. Comprehensive clinical management is applied where relevant to infant health, during childhood, adolescence, in women's health and men's health, and health and disease in middle age and geriatrics, diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and/or a mental health condition, addressing the determinants of health over the total life span. The module includes 800 hours clinical experience in a variety of healthcare scenarios.
Examination period: October/November.

FTP 873 Physiotherapy: Sports medicine 873
Academic organisation: Physiotherapy
Contact time: 2 spw 10 lpw

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FTP 890 Dissertation: Physiotherapy 890
Academic organisation: Physiotherapy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

FTP 891 Essay: Physiotherapy 891
Academic organisation: Physiotherapy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

FTP 893 Research project 893
Academic organisation: Physiotherapy
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 16

FTP 900 Physiotherapy 900
Academic organisation: Physiotherapy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

FTP 990 Thesis: Physiotherapy 990
Academic organisation: Physiotherapy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

FTX 801 Professional physiotherapy practice 801
Academic organisation: Physiotherapy
Contact time: 1 web-based period per week 5 dpw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 26

FTX 802 Professional physiotheraphy practice 802
Academic organisation: Physiotherapy
Contact time: 6 lpw 5 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 26

FTX 803 Professional physiotherapy practice 803
Academic organisation: Physiotherapy
Contact time: 5 dpw 6 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 26

GAP 271 Community as patient 271
Academic organisation: Community Dentistry
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 1 lpw (24 weeks) 1 ppw (2 h) (30 weeks)

Period of presentation: Year
Language of tuition: Double medium **Credits:** 14
Module content:
The module will enable the oral hygiene student to diagnose the oral health problems of any given community. Application of the knowledge gained from the module will enable him/her to participate in relevant primary and secondary preventive programmes to improve the oral health of that community in accordance with the Public Oral Health Policy of the RSA. Oral hygiene students will visit special schools, nursery schools and hospitals where oral health programmes are implemented and maintained.

GAP 371 Community as patient 371
Academic organisation: Community Dentistry
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 2 ppw (30 week period) 2 practical sessions
Period of presentation: Year
Language of tuition: Double medium **Credits:** 13
Module content:
This module consists of practical work in the community only and is a continuation of GAP 271 Community as patient 271.

GAP 470 Community as patient 470
Academic organisation: Community Dentistry
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, RAD 370, TBW 370, ODO 370, PDL 370, DFA 370
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 4
Module content:
The modules in this subject consist of theoretical and practical training in oral epidemiology, community based primary and secondary prevention and the application of the principles of public oral health in his/her working environment.

GAP 570 Community as patient 570
Academic organisation: Community Dentistry
Prerequisite: TBW 470, ODO 470, MFP 470, PDL 470, DFA 470, OFC 470, PTK 470, GAP 470, TMZ 470
Contact time: 3 other per week 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 6
Module content:
The modules in this subject consist of theoretical and practical training in oral epidemiology, community-based primary and secondary prevention and the application of the principles of public oral health in his/her working environment.

GEG 900 Mental health 900
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GEG 990 Thesis: Mental health 990
Academic organisation: Family Medicine

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GER 800 Geriatrics 800
Academic organisation: Family Medicine
Prerequisites: PAG 806, ANA 893, FSG 801, FAR 804
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

GER 900 Geriatrics 900
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GER 990 Thesis: Geriatrics 990
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GGK 800 Forensic medicine 800
Academic organisation: Forensic Health Sciences
Prerequisites: ANA 800, FSG 801, FAR 803, ANP 874
Contact time: 1 spw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

GGK 900 Forensic medicine 900
Academic organisation: Forensic Health Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GGK 990 Thesis: Forensic medicine
Academic organisation: Forensic Health Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GGS 800 Public health medicine 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 70

GGS 801 Public health medicine 801
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GGS 890 Dissertation: Public health medicine 890
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 100

GGS 900 Public health medicine 900
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 1

GGS 990 Thesis: Public health medicine 990
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 480

GIM 700 Medical immunology 700
Academic organisation: Immunology
Period of presentation: Year
Language of tuition: English **Credits:** 96

GIM 800 Examination: Medical immunology 800
Academic organisation: Immunology
Period of presentation: Year
Language of tuition: English **Credits:** 1

GIM 890 Dissertation: Medical immunology 800
Academic organisation: Immunology
Period of presentation: Year
Language of tuition: English **Credits:** 240

GIM 900 Examination: Medical immunology 900
Academic organisation: Immunology
Period of presentation: Year
Language of tuition: English **Credits:** 1

GIM 990 Thesis: Medical immunology 990
Academic organisation: Immunology
Period of presentation: Year
Language of tuition: English **Credits:** 480

GKW 700 Medical nuclear science 700
Academic organisation: Nuclear Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

GKW 800 Medical nuclear science 800
Academic organisation: Nuclear Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GKW 890 Dissertation: Medical nuclear science 890
Academic organisation: Nuclear Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

GKW 900 Medical nuclear science 900
Academic organisation: Nuclear Medicine

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GKW 990 Thesis: Medical Nuclear Science 990
Academic organisation: Nuclear Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GMB 171 Microbiology and immunology 171
Academic organisation: Medical Microbiology
Contact time: 3 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 8
Module content:
This module will provide the oral hygiene student with a thorough basic knowledge of:
• basic microbiology
• applied oral microbiology
• basic immunological principles
• applied immunology
• principles of hypersensitivity, auto-immune disease and immunisation
The module content will serve as pre-knowledge for clinical subjects.

GMB 252 Medical microbiology 252
Academic organisation: Medical Microbiology
Contact time: 2 lpw
Period of presentation: Quarter 2
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
Infection, immunity and basic bacteriology.
Introduction and basic principles of infection, sterilisation and the immune system. Bacterial cells and the classification of disease-causing bacteria.

GMB 253 Medical microbiology 253
Academic organisation: Medical Microbiology
Prerequisite: FLG 211 GS, FLG 212 GS
Contact time: 2 lpw
Period of presentation: Quarter 3
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
Systemic bacteriology.
Commonly occurring bacterial infections and the bacteria that cause them.

GMB 254 Medical microbiology 254
Academic organisation: Medical Microbiology
Prerequisite: FLG 211 GS, FLG 212 GS
Contact time: 2 lpw
Period of presentation: Quarter 4
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
Fungi, parasitology and virology.
Commonly occurring fungal, viral and parasite infections and infestations, and the organisms that cause them.

GMB 700 Medical microbiology 700
Academic organisation: Medical Microbiology
Contact time: 1 spw 1 dpw 4 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

GMB 800 Medical microbiology 800
Academic organisation: Medical Microbiology
Prerequisite: GMB 801, or Capita selecta from APY 871, CHP 871, HEM 871, GVR 871
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

GMB 801 Medical microbiology 801
Academic organisation: Medical Microbiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

GMB 805 Medical microbiology 805
Academic organisation: Medical Microbiology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 1

GMB 871 Medical microbiology (Capita selecta) 871
Academic organisation: Medical Microbiology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 36

GMB 890 Dissertation: Medical microbiology 890
Academic organisation: Medical Microbiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

GMB 900 Medical microbiology 900
Academic organisation: Medical Microbiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GMB 990 Thesis: Medical microbiology 990
Academic organisation: Medical Microbiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GMP 800 Health human resource planning 800
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: English **Credits:** 24

GNF 700 Medical physics: Practical work 700
Academic organisation: Radiation Oncology
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 701 Medical physics: Nuclear medicine 701
Academic organisation: Radiation Oncology
Contact time: 2 dpw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 702 Medical physics: Diagnostic radiology 702
Academic organisation: Radiation Oncology
Contact time: 2 dpw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 703 Medical physics: Radiation physics 703
Academic organisation: Radiation Oncology
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 704 Medical physics: Radiotherapy 704
Academic organisation: Radiation Oncology
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 705 Medical physics: Radiation protection 705
Academic organisation: Radiation Oncology
Contact time: 2 lpw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GNF 800 Medical physics 800
Academic organisation: Radiation Oncology
Contact time: 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GNF 890 Dissertation: Medical physics 890
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

GNF 900 Medical physics 900
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

GNF 990 Thesis: Medical physics 990
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

GNK 120 Orientation 120
Academic organisation: Health Sciences Dean's Office
Contact time: 4 spw 5 ppw 17 lpw 4 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 5
Module content:
Introduction to the study of Medicine/Dentistry.
Introduction to the Faculty of Health Sciences and students' interaction with the faculty description of the curriculum and the demands made on students at different stages. Introduction to the principles contained within the "golden threads". Introduction to the cultural differences and taboos important to the healthcare worker. First stages of learning a new language – Setswana and Afrikaans.

GNK 122 Computer orientation 122
Academic organisation: Obstetrics and Gynaecology
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 4

GNK 127 People and their environment 127
Academic organisation: Health Sciences Dean's Office
Contact time: 2 dpw 5 spw 6 lpw 15 ppw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
The biopsychosocial approach to healthcare; patients in their family and community environment; the role of psychology in the work of a generalist; how patients adapt to sickness and cope with stress; the healthcare system in rural South Africa; health promotion and health education; the use of electronic databases.

GNK 128 Introduction to clinical pharmacotherapy 128
Academic organisation: Pharmacology
Contact time: 5 dpw 5 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 10
Module content:
Introductory principles to clinical pharmacotherapy on the grounds of applicable patient problems/disease processes; receptors for medicines; principles of structure activity relationships; dynamic and kinetic principles to bring pharmacological principles and clinical therapy together in a problem-based curriculum.

GNK 188 Anatomy 188
Academic organisation: Anatomy
Contact time: 18 lpw 2 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 56
Module content:
Systemic anatomy and embryology:
An introduction to anatomical terminology, the musculoskeletal system, nervous system, surface anatomy, cardiovascular system, respiratory system, urogenital system, gastro-intestinal system, and the endocrine system and human embryology.
Human osteology:

Introduction to osteology, bone function and classification, humerus, radius, ulna, femur, tibia, fibula, clavicle, scapula, ribs, sternum, vertebrae, pelvis, hand and foot bones, sesamoid bones, skull, mandible, joints.
Human histology:
General introduction to cells and tissue, terminology, the cell and cytoplasm, organelles and inclusions, surface and glandular epithelium, general connective tissue, specialised connective tissue, namely cartilage, bone, blood and haemopoietic tissue, muscle and nervous tissue.

GNK 283 Introduction to clinical medicine 283
Academic organisation: Obstetrics and Gynaecology
Prerequisite: CMY 151, FIL 155, MGW 112, MLB 111, PHY 131, MTL 180, GNK 120, BOK 121, GNK 127, GNK 128, AIM 101, ELH 121 and 122.
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
The biopsychosocio model of illness; the SIAMS framework for the consultation; surface anatomy: the integrated management of childhood illness (IMCI); general physical examination skills and introduction to clinical departments.

GNK 285 Blood 285
Academic organisation: Family Medicine
Prerequisite: CMY 151, GNK 121, GNK 122, MLB 111, PHY 131, GNK 126, BOK 120, MTL 180, MGW 111, FIL 182, AIM 101, ELH 121 and 122.
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 4

GNK 286 Basic emergency care 286
Academic organisation: Health Sciences Dean's Office
Prerequisite: CMY 151, FIL 155, MGW 112, MLB 111, PHY 131, MTL 180, GNK 120, BOK 121, GNK 127, GNK 128, AIM 101, ELH 121 and 122.
Contact time: 1 other per week 8 ppw
Period of presentation: Semester 1 and/or 2
Language of tuition: Both Afr and Eng **Credits:** 5
Module content:
Theory and practical training in basic emergency care.

GNK 288 Anatomy (Dissection) 288
Academic organisation: Anatomy
Prerequisite: CMY 151, GNK 120, GNK 127, MLB 111, PHY 131, GNK 128, BOK 121, MGW 112, FIL 155, MTL 180, AIM 101, ELH 121 and 122.
Contact time: 14 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 37
Module content:
Clinically applied regional dissection of the upper limb, neck and back, head, brain, thorax, abdomen, pelvis and lower limb.

GNK 289 Anatomy 289 (*offered as from 2015*)
Academic organisation: Anatomy
Contact time: 15 lpw

Period of presentation: Semester 1
Language of tuition: English **Credits:** 40
Module content:
Clinically applied regional approach to human anatomy. Detailed cadaveric dissection of the head and neck, brain and spinal cord, axilla, upper limb, thorax, back and abdomen. Particular emphasis will be given to the head and neck region. The perineum, pelvis and lower limb will not be dissected, but taught with the aid of prosected specimens.

GNK 381 Heart and blood vessels 381
Academic organisation: Internal Medicine
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, (BOK 281 or (BOK 285,BOK 287)) GNK 283, GNK 286, LCP 280, SMO 281, SMO 211
Contact time: 16 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 25
Module content:
Discussion of the important diseases in order to obtain a complete overview of the disease, which will include anatomy, physiology, pathology, pharmacology and clinical medicine.

GNK 383 Lungs and chest 383
Academic organisation: Internal Medicine
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, (BOK 281 or (BOK 285, BOK 287)), GNK 283, GNK 286, LCP 280, SMO 281, SMO 211.
Contact time: 12 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Lungs and chest.
Discussion of the significant diseases in order to obtain a complete overview of the disease, which will include anatomy, physiology, pathology, pharmacology and clinical medicine.

GNK 385 Preceptorship 385
Academic organisation: Family Medicine
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, (BOK 281 or (BOK 285, BOK 287)), GNK 283, GNK 286, LCP 280, SMO 281, SMO 211
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
A learning opportunity for the undergraduate student to:
(i) experience in practice, the general practitioner or family physician;
(ii) meet the unselected patient; and
(iii) observe first-hand, the problems which have to be contended within primary care. The problems comprise biomedical, psycho-social and managerial challenges.

GNK 386 Haematological malignancies 386
Academic organisation: Paediatrics
Prerequisite: BOK 280, GNK 288, BOK 284, GPS 280, (BOK 281 or (BOK 285, BOK 287)) , GNK 283, GNK 286, LCP 280, SMO 281, SMO 211
Contact time: 1 lpw

Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5
Module content:
Haematological malignant neoplasia: Basic and clinical information with regard to this group of diseases, including healing ability with regard to lymphoma, leukaemia, myeloproliferative diseases; and immunoproliferative diseases.

GNK 388 Head and neck anatomy 388
Academic organisation: Anatomy
Prerequisite: GNK 288, BOK 283, (BOK 281or (BOK 285, 287)), GNK 286, GPS 280, IKT 200, BOK 280, SMO 211, SMO 281, LCP 280
Contact time: 12 ppw 16 dpw 4 lpw 8 spw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12
Module content:
A relevant head-and-neck anatomy module for dental students, detailing essential information applicable to the practice of clinical dentistry.

GNK 481 Disorders of childhood 481
Academic organisation: Paediatrics
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, GNK 488, SMO 311, SMO 380, SMO 382
Contact time: 6 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 31
Module content:
The module is designed to help students gain knowledge, skills and attitudes in order to understand and respond to the special needs and vulnerability of children in relation to development, nutrition, environment and adaptation; recognise by means of history and examination, common and important abnormalities of development, nutrition, environment and adaptation and be able to deal with them effectively; recognise by means of history and examination, common and important health problems of infancy and childhood and be able to deal with them effectively.
The mornings are devoted to direct contact with paediatric patients and their problems by means of small-group activities at a variety of experimental learning sites.
The afternoon periods are used for representative case studies with regard to a series of general or important themes, illustrated by multidisciplinary symposia, lectures, problem-solving exercises and self-tuition.

GNK 483 Musculoskeletal conditions 483
Academic organisation: Orthopaedics
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 380, SMO 311, SMO 382
Contact time: 7 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 28
Module content:
A study of the build and functions as well as the diseases of the musculo-skeletal movement apparatus in adults and children. Emphasis is placed on the diagnosis and treatment of the most prominent conditions as well as the acquiring of practical and clinical skills.

GNK 484 Endocrinology 484
Academic organisation: Health Sciences Dean's Office
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 380, SMO 311, SMO 382
Contact time: 1 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
An opportunity for the student to become familiarised with the most common endocrinology problems in practice, including diabetes and obesity. The focus is on the recognition of these conditions and their practical handling.

GNK 485 Head and neck 485
Academic organisation: Otorhinolaryngology
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 311, SMO 380, SMO 382
Contact time: 5 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 33
Module content:
An opportunity for the undergraduate student to acquire knowledge and skills in respect of the prevention, diagnosis and treatment of diseases of the head and neck region by means of lectures, seminars, self-tuition and practical sessions in the clinic, ward, theatre as well as the skills laboratory. A problem-based and interdisciplinary approach is emphasised.

GNK 486 Ageing 486
Academic organisation: Psychiatry
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 311, SMO 380, SMO 382
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 8
Module content:
Discussion of the physiology and psychology of ageing and an overview of diseases commonly found in the elderly, with a biomedical psycho-social approach.

GNK 487 Skin 487
Academic organisation: Internal Medicine
Prerequisite: GNK 381, GNK 383, BOK 380, GNK 386, GPS 380, BOK 382, SMO 311, SMO 380, SMO 382
Contact time: 1 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 5
Module content:
Clinical manifestations and management.

GNK 488 Elective 488
Academic organisation: Health Sciences Dean's Office
Prerequisite: BOK 280, BOK 284, GNK 286, GPS 280, SMO 281, *(BOK 281 or (BOK 285 ,287))*, GNK 283, GNK 288, SMO 211, LCP 280
Contact time: 1 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 23
Module content:
An opportunity for the undergraduate student to acquire knowledge, skills and experience in the medical practice environment.

GNK 581 Psychiatry and social dysfunction 581
Academic organisation: Psychiatry
Prerequisite: GNK 481, BOK 480, BOK 482, GNK 485, GNK 483, GNK 487, GNK 486, GNK 484, GNK 385, SMO 411
Contact time: 18 lpw 5 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 34
Module content:
The module will help students to acquire knowledge, skills and attitudes that will enable them to diagnose and manage certain psychiatric conditions. Preventive and promotive aspects of management are also emphasised. These psychiatric conditions include the following: mood disorders, anxiety disorders, alcohol and substance-related disorders, sexual disorders, schizophrenia and other psychotic disorders, mental disorders due to general medical conditions, personality disorders, eating disorders and sleep disorders.
These topics will be handled as applicable to children, adolescents and adults. Additional topics include: legal aspects, aggression, child abuse, child development, mental retardation and interpersonal skills.
During morning lectures, students are directly exposed to psychiatric patients and their problems by means of small-group activities.
The afternoon lectures are used for the solution of problem-orientated case studies and accompanied exploration of the themes mentioned above. The module is student-oriented, with the emphasis on self-tuition.

GNK 582 Health and healthcare 582
Academic organisation: Family Medicine
Prerequisite: BOK 480, BOK 482, GNK 481, GNK 483, GNK 484, GNK 485, GNK 486, GNK 487, GNK 385, SMO 411
Contact time: 2 dpw 15 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 27
Module content:
This module aims to integrate the concepts of Family Medicine and Community Medicine for the delivery of healthcare in South Africa. The module content covers medico-legal aspects of practice, ethical issues, as well as approaches to common problems in practice, with emphasis on the application of the biopsychosocial model of care in the South African district health system.

GNK 583 Traumatology 583
Academic organisation: Surgery
Prerequisite: BOK 480, BOK 482, GNK 481, GNK 483, GNK 484, GNK 485, GNK 486, GNK 487, GNK 385, SMO 411
Contact time: 3 dpw 1 ppw 1 other per week 10 lpw 1.5 spw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 25
Module content:
The block consists of two modules, one practical and the other theoretical.

The objective of the trauma practicals is to introduce students to clinical recognition of trauma emergencies, institution of emergency resuscitation, application of life saving and life support manoeuvres and emergency treatment of the trauma victim. Using actors/models, students are taught the application of the Advanced trauma life support (ATLS) (ABCDE) type approach to trauma.
The trauma theory comprises the introduction to the full spectrum of trauma as a disease. Epidemiology of trauma, mechanisms of wounding, including ballistics, the biological response to trauma, wound healing and complications of trauma will be taught. Emergency treatment, resuscitation and intensive care treatment of the trauma victim will be covered. A systematic course on a thematic basis will be given to cover the major organ systems prioritised according to the ATLS type approach of life threatening, limb threatening or disfiguring injuries.
Thus, thoracic, cardiovascular, abdominal, head and neck trauma will be dealt with as potential life threatening injuries, orthopaedic as limb threatening trauma and skin injuries are mainly disfiguring. Thermal, electrical and chemical burns and hypothermia will be covered. Introduction to physical and psychological rehabilitation and nutrition of the trauma victim will be taught.

GNK 585 Pharmacotherapy 585
Academic organisation: Pharmacology
Prerequisite: BOK 480, BOK 482, GNK 481, GNK 483, GNK 484, GNK 485, GNK 486, GNK 487, GNK 385, SMO 411
Contact time: 1 dpw 8 lpw 1 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 7
Module content:
Core pharmacotherapy and applicable clinical aspects of the most general and prominent diseases and conditions, principles of toxicology and medical-forensic aspects of substance abuse, court proceedings and iatrogenic deaths.

GNK 586 Anaesthesiology 586
Academic organisation: Anaesthesiology
Prerequisite: BOK 480, BOK 482, GNK 481, GNK 483, GNK 484, GNK 485, GNK 486, GNK 487, GNK 385, SMO 411
Contact time: 8 lpw 1 dpw 1 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 13
Module content:
A basic introduction to the underlying principles of the theory and practice of anaesthesiology applicable to the generalist. Learning experiences comprise practical residency (prior to Block 18), formal interactive lectures, workshops and case studies (during Block 18).

GNK 587 Forensic medicine morning rotation 587
Academic organisation: Forensic Medicine
Prerequisite: LCP 480, BOK 480, BOK 482, GNK 385, GNK 481, GNK 483, GNK 484, GNK 485, GNK 486, GNK 487, SMO 411
Contact time: 4 lpw 5 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 4
Module content:
Forensic medicine morning rotation.

GNK 680 Surgery 680
Academic organisation: Surgery
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 52
Module content:
Surgery (7 weeks) in the Student Intern Complex: General surgery, vascular surgery, plastic surgery, paediatric surgery, cardiothoracic surgery.

GNK 681 Orthopaedics 681
Academic organisation: Surgery
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 17
Module content:
Orthopaedics (three weeks) in the Student Intern Complex.

GNK 682 Anaesthesiology 682
Academic organisation: Anaesthesiology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Anaesthesiology (3½ weeks) in the Student Intern Complex.

GNK 683 Internal medicine 683
Academic organisation: Internal Medicine
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 45
Module content:
Internal medicine (7 weeks) in the Student Intern Complex.

GNK 684 Internal medicine-related subdisciplines 684
Academic organisation: Internal Medicine
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20

GNK 685 Psychiatry 685
Academic organisation: Psychiatry
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 40
Module content:
Psychiatry (7 weeks) in the Student Intern Complex.

GNK 686 Obstetrics and gynaecology 686
Academic organisation: Obstetrics and Gynaecology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 40
Module content:
Obstetrics and gynaecology (7 weeks) in the Student Intern Complex.

GNK 687 Paediatrics 687
Academic organisation: Paediatrics
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 40
Module content:
Paediatrics (7 weeks) in the Student Intern Complex.

GNK 688 Community-based education 688
Academic organisation: Obstetrics and Gynaecology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Community-based education (3½ weeks) in the Student Intern Complex.

GNK 689 Diagnostic laboratory medicine 689
Academic organisation: Health Sciences Dean's Office
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 11
Module content:
Diagnostic laboratory medicine (2 weeks); image-forming medicine; evidence-based medicine and bioethics (two days) in the Student Intern Complex.

GNK 690 Urology 690
Academic organisation: Urology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 11
Module content:
Urology (2 weeks) in the Student Intern Complex.

GNK 691 Family medicine 691
Academic organisation: Family Medicine
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Family medicine (3½ weeks) in the Student intern complex.

GNK 692 Community obstetrics 692
Academic organisation: Obstetrics and Gynaecology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586
Contact time: 40 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Community obstetrics (3½ weeks) in the Student Intern Complex.

GNK 693 Neurology 693
Academic organisation: Neurology
Prerequisite: GNK 581, GNK 582, GNK 583, GNK 585, GNK 586, SMO 511, SMO 512
Contact time: 40 ppw
Period of presentation: Semester 1 or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 15
Module content:
Neurology (3½ weeks) in the Student Intern Complex.

GOM 370 General and oral microbiology 370 (*offered as from 2016*)
Academic organisation: Medical Microbiology
Contact time: 1 lpw (involves lectures, tutorials, practical sessions and symposia)
Period of presentation: Year
Language of tuition: English **Credits:** 23
Module content:
Infectious diseases in the various body systems:
This module is an introduction to infectious diseases occurring in the various body systems. The block will cover diseases caused by the organisms, pathogenesis, specimen collection, laboratory diagnosis as well as management (treatment, prevention and control) of these infections.
Oral microbiology:
This module will provide knowledge to dental students about clinical microbiology and infectious diseases as well as basic principles for the recognition and identification of infectious agents relevant to the discipline of dentistry. Furthermore, the role of relevant organisms that are associated with the oral cavity in health and disease and understand diagnosis and be able to recognise patients with infections related to dentistry.

GPS 280 Generic procedural skills 280
Academic organisation: Health Sciences Dean's Office
Prerequisite: CMY 151, GNK 127, GNK 128, MLB 111, PHY 131, GNK 120, BOK 121, MGW 112, FIL 155, MTL 180
Contact time: 3 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 2

GPS 370 Generic procedural skills 370
Academic organisation: School of Dentistry
Contact time: 1 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 5
Module content:
Procedures: skin, scrubbing and dressing for theatre.
Physical examinations: cardiovascular examination, respiratory examination.

GPS 380 Generic procedural skills 380
Academic organisation: Health Sciences Dean's Office
Prerequisite: BOK 280, GNK 283, GNK 288, GPS 280, BOK 281, SMO 211, GNK 286, BOK 284, SMO 281
Contact time: 1 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5

GRA 701 Groups in occupational therapy 701
Academic organisation: Occupational Therapy
Contact time: 3 ppw 1 dpw 2 lpw 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30
Module content:
Emphasis will be placed on role-playing and groups in learning employment acquisition behaviour.

GRA 800 Groups in occupational therapy 800
Academic organisation: Occupational Therapy
Contact time: 5 dpw 10 lpw 5 spw 15 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 28

GRT 700 Group techniques in occupational therapy 700
Academic organisation: Occupational Therapy
Contact time: 5 ppw 8 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 60
Module content:
The group process. Group leadership. Problem clients and intervention strategies. Group activities with clients on different levels of motivation and action.

GSL 900 Health systems 900
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 1

GSL 990 Health systems 990
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 480

GTH 700 Community dentistry 700
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

GTH 702 Community dentistry 702
Academic organisation: Community Dentistry
Contact time: 4 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

GTH 770 Community dentistry 770
Academic organisation: Community Dentistry
Contact time: 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GTH 800 Community dentistry 800
Academic organisation: Community Dentistry
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

GTH 890 Dissertation: Community dentistry 890
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

GTH 990 Thesis: Community dentistry 990
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

GVP 110 Community nursing science 110
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 25
Module content:
The community nursing context.
Community health, community-based nursing care and primary healthcare (PHC).
Processes in community nursing.
Assessment, diagnosis, intervention and evaluation. Health education and home healthcare nursing.

GVP 120 Community nursing science 120
Academic organisation: Nursing Science
Prerequisite: GVP 110
Contact time: 1 other per week 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 25
Module content:
Care of individuals, families and communities in the community nursing context. Comprehensive approach to the care of infants, children, women, men and those within unique settings or circumstances (e.g. the elderly, the homeless, marginalised communities, emergency situations and reproductive health). Common community health problems.
Communicable diseases and immunisation, HIV/Aids. Chronic physical and mental health problems. Social pathology in the community.

GVP 160 Community nursing science 160
Academic organisation: Nursing Science
Contact time: 2 ppw

Period of presentation: Year
Language of tuition: English **Credits:** 50
Module content:
*Attendance module only
Community nursing science practical work.
Compulsory practical work, which includes mother and child health, school health, occupational health and safety, geriatric care, the prevention and control of communicable diseases, rehabilitation services and community resources, environmental safety, physical and nursing assessment of patients, diagnosis and care and health education.
Family study and community profile.

GVP 250 Community nursing science 250
Academic organisation: Nursing Science
Prerequisite: GVP 110, GVP 120
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 18
Module content:
The community nursing process.
Assessment, planning, implementation and evaluation within the community health nursing context. Epidemiology and demography in community health nursing.

GVP 260 Community nursing science 260
Academic organisation: Nursing Science
Prerequisite: GVP 250
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 18
Module content:
Community involvement.
Community empowerment, development and participation. Quality assurance and change in the community context.

GVP 300 Community nursing science 300
Academic organisation: Nursing Science
Prerequisite: GVP 250, GVP 260
Contact time: 2 dpw 2 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 44
Module content:
Application of relevant nursing theories.
Quality assurance. Nursing care planning and applicable nursing interventions in individual group, family and community contexts. Family care.

GVR 700 Medical virology 700
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 96

GVR 800 Medical virology 800
Academic organisation: Medical Virology
Prerequisites: GVR 801 or capita selecta from APY 871, CHP 871, HEM 871, GMB 871

Period of presentation: Year
Language of tuition: English **Credits:** 300

GVR 801 Medical virology 801
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 36

GVR 805 Medical virology 805
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 1

GVR 871 Medical virology (Capita selecta) 871
Academic organisation: Medical Virology
Period of presentation: Semester 1
Language of tuition: English **Credits:** 36

GVR 890 Dissertation: Medical virology 890
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 240

GVR 900 Medical virology 900
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 1

GVR 990 Thesis: Medical virology 990
Academic organisation: Medical Virology
Period of presentation: Year
Language of tuition: English **Credits:** 480

HAK 780 Philosophy and principles of family medicine 780
Academic organisation: Family Medicine
Period of presentation: Semester 1 or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20

HAK 800 Family medicine 800
Academic organisation: Family Medicine
Prerequisites: AEH 801, FSG 809, DLM 807
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

HAK 900 Family medicine 900
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

HAK 990 Thesis: Family medicine 990
Academic organisation: Family Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

HCE 770 Introduction to health economics 770
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCE 870 Introduction to health economics 870
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCF 770 Financial management in public health 770
Academic organisation: School of Health Systems and Public Health
Contact time: 1 dpw 1 spw 1 other per week 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCF 870 Financial management in public health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 spw 1 dpw 1 lpw 1 ppw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCI 770 Health systems operations management 770
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCI 870 Health systems operations management 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 1 lpw 1 dpw 1 other per week 1 spw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCL 770 Legislation and health 770
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 1 other per week 1 spw 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCL 771 Occupational health law 771
Academic organisation: School of Health Systems and Public Health
Prerequisite: EOH 770
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCL 870 Legislation and health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 other per week 1 spw 1 ppw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCM 772 Health policy and systems 772
Academic organisation: School of Health Systems and Public Health
Contact time: 4 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCM 773 Managing occupational health services 773
Academic organisation: School of Health Systems and Public Health
Prerequisite: EOH 770
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCM 870 Introduction to health management 870
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCM 872 Health policy and systems 772
Academic organisation: School of Health Systems and Public Health
Contact time: 1 dpw 1 lpw 1 spw 1 ppw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCM 873 Managing occupational health services 873
Academic organisation: School of Health Systems and Public Health
Prerequisite: EOH 870
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCS 770 Project management in health 770
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 770 or HME 772
Contact time: 1 dpw 1 lpw 1 spw 1 other per week 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCS 870 Project management in health 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: HME 870
Contact time: 1 lpw 1 ppw 1 spw 1 dpw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 10

HCS 875 Laboratory skills in public health 875
Academic organisation: School of Health Systems and Public Health
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HEM 700 Haematology 700
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

HEM 800 Haematology 800
Academic organisation: Haematology
Prerequisites: FSG 801, HEM 801, or capita selecta from APY 871, CHP 871, GMB 871, GVR 871
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

HEM 801 Haematology 801
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

HEM 809 Haematology 809
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

HEM 871 Haematology (Capita selecta) 871
Academic organisation: Haematology
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 36

HEM 890 Dissertation: Haematology 890
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 240

HEM 900 Haematology 900
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

HEM 990 Thesis: Haematology 990
Academic organisation: Haematology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

HET 870 Public health, ethics and human rights 870
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
This module enables students to understand ethical and human rights reasoning in health interventions and research, and provides competence in ethical review of public health research and interventions. The module covers ethical and human rights approaches and applies them to public health. Students deal with threats to ethics or human rights in

public health action, and with some specific areas: resource allocation, gender and research, environmental justice, international collaborative research.

HIN 770 Introduction to health informatics 770
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 10

HIN 870 Introduction to health informatics 870
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 10

HME 770 Introduction to health measurement 770
Academic organisation: School of Health Systems and Public Health
Contact time: 8 lpw 4 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Basic epidemiology.

HME 772 Primary epidemiology 772
Academic organisation: Public Health Medicine
Contact time: 1 other per week 8 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HME 870 Introduction to health measurement 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 other per week 1 ppw 1 spw 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HME 873 Monitoring and evaluation 873
Academic organisation: School of Health Systems and Public Health
Contact time: 2 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 15

HMS 771 Scientific writing 771
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of instruction: English **Credits:** 10

HMS 871 Scientific writing 871
Academic organisation: School of Health Systems and Public Health
Prerequisite: TNM 800
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

HMS 872 Health data management 872
Academic organisation: School of Health Systems and Public Health
Prerequisite: EPM 874, BOS 870
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

HNT 210 Human nutrition 210
Academic organisation: Human Nutrition
Prerequisite: FLG 211, FLG 212, BCM 251, BCM 252
Contact time: 1 dpw 1 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 27
Module content:
Application of scientific principles in human nutrition. Standards, guidelines and food composition tables.

HNT 220 Human nutrition 220
Academic organisation: Human Nutrition
Prerequisite: FLG 211 GS, FLG 212 GS, BCM 253, BCM 254, BCM 255, BCM 256, HNT 210
Contact time: 1 dpw 3 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 24
Module content:
Human nutrition in the life cycle: Nutritional screening, nutritional needs, nutrition problems and prevention thereof, growth monitoring and meal/menu planning.

HNT 411 Advanced human nutrition 411
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 1 dpw 3 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 18
Module content:
Seminars and case studies (theory and practical application): Eating behaviour, eating disorders, nutrient/nutrition supplementation, sports nutrition, vegetarianism, food safety, nutrition of the disabled, prevention of non-communicable disease of lifestyle; nutrition and immunity; nutrition and genetics.

HPF 770 Health system and transformation policy (political analysis, strategy and finance options) 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Reform in SA – What is the problem? To include variations among provinces and districts, measurement issues, etc. Financing NHI: Revenue sources (general taxes, payroll taxes, etc.) the role of private insurance, fiscal space and the public finance situation in SA, covering the informal sector, etc.
Pay for performance as a policy tool: practical difficulties and the critical role for

management in implementation. Overview of payment: Options for paying doctors and hospitals, the role of contracting, likely consequences and implementation issues. Politics and the reform process: Stakeholder analysis and mobilising support for reform. Financing NHI: Revenue sources (general taxes, payroll taxes, etc.) the role of private insurance, fiscal space and the public finance situation in S.A., covering the informal sector, etc. Organising NHI: national vs. provincial, public vs. quasi-public, roles for private administrators, choices about fiscal autonomy, relationship to various ministries. Government and market failures and the role of the public and private sectors – including corruption issues in both areas. Benefit package and targeting: Introduction to the 'step pyramid'. What should be covered and for whom? What role for co-payments as incentive and revenue source. The developmental transformation of the healthcare system is informed by the political context and the constitutional imperatives for access to care, which is, the main purpose of the healthcare system. This module will provide the participant with analytical tools to interpret the political economy of health and to develop strategies which can respond to the health needs on the ground in a practical manner so that the impact of the health policy is understood and how it informs the type of executive leader required to deliver the results of effective and efficient healthcare delivery. Participants will be trained in costing the pooling, provisioning and procurement of health services as District or Hospital Managers to allow for the effective and efficient running of the services over which they have authority. Training will focus on their Units becoming a Cost Centre for the management of the finances allocated by the Provincial Health Authority as well as capacity building in the event that delegations for autonomy is devolved of their level of employment. The importance of performance management will be the focus in relation to optimal budget performance, allocation within the institution as well as meeting performance targets and outcome measures.

HRM 770 Principles of human resource management 770
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HRM 771 Strategic human resources and management performance 771
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Participants will be taught the critical importance of human resource development and management strategies required for an effective district healthcare system which is required for an effective NHI-based healthcare system. HR planning, forecasting, analysis, implementation and evaluation processes will be integrated into service delivery target achievement. The different types of human resources and their roles for effective service delivery in working in an integrated healthcare system will be used in case studies developed in the SA health context.

HRM 870 Principles of human resource management 870
Academic organisation: Public Health Medicine
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

HSR 770 Health systems re-engineering including public sector centralisation and decentralisation 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
(District) Health systems (and hospital) re-engineering including public sector centralisation and decentralisation.
The re-engineering of the health system is one of the key pillars of the SAELPH programme with focus on improvement of services in the DHS. The new thrust of the national DOH with PHC as a key focus requires a new type of health leader who can understand the central role of PHC in a future equitable and efficient healthcare system. This module will assist to reshape the thinking of public health leaders towards building sound foundation strategies for the delivery of essential healthcare services primarily at the DHS level and its impact on the overall healthcare system. Development of a decentralisation case – a South African example focused on a district as the 'man in the middle' of the decentralisation process including the need for information, problems of supervision. Understand the international experience in re-engineering public sector providers, with special emphasis on PHC and how they will function in a future NHI.

HTH 700 Restorative dentistry 700
Academic organisation: Odontology
Contact time: 1 spw 1 dpw 5 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

HTH 800 Restorative dentistry (Capita selecta) 800
Academic organisation: Odontology
Contact time: 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

HTH 890 Dissertation: Restorative dentistry 890
Academic organisation: Odontology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

ICX 870 Integrative case study (1) 870
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5

ICX 871 Integrative case study (2) 871
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5

ICX 872 Integrative case study (3) 872
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw

Period of presentation: Year
Language of tuition: English **Credits:** 5

ICX 873 Integrative case study (4) 873
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 3 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

ICX 874 Integrative case study (5) 874
Academic organisation: School of Health Systems and Public Health
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

ICX 875 Integrative case study (6) 875
Academic organisation: School of Health Systems and Public Health
Contact time: 40 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

IDE 170 Integrated dentistry 170
Academic organisation: Dental Management Sciences
Contact time: 1 lpw 2 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 28
Module content:
Introduction to clinical dentistry:
- Infection control training.
- Occupational health and safety training.
- Code of conduct, professionalism and ethical behaviour.
- Academic skills training (library, goal-orientation, time management, etc.).
- Basic dental assisting.
- Basic tooth anatomy and terminology.
- Dental terminology.
- Psychomotor skills training (model casting, carving of teeth out of plaster, wax work).
- Introduction to the disciplines and specialities.
- Third language training.
- Clinic visits throughout the year.
- Visits to a dental practice.

IDE 270 Integrated dentistry 270 (*offered as from 2015*)
Academic organisation: Dental Management Sciences
Contact time: 1 lpw 1 ppw (first semester) 2 lpw 2 ppw (second semester)
Period of presentation: Year
Language of tuition: English **Credits:** 37
Module content:
- Clinic visits and visits to a dental practice.
- Patient administration training.
- Psychomotor skills training (model casting, carving teeth out of plaster, wax work, wire bending).

- Pre-clinical communication training – building up rapport with a patient and interviewing skills (commences in the second semester).
- Examination skills training (commences in the second semester).

IGK 800 Internal medicine 800
Academic organisation: Internal Medicine
Prerequisites: ANA 800, FSG 801, FAR 806, PAG 808
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

IGK 804 Internal medicine 804
Academic organisation: Internal Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

IGK 805 Internal medicine 805
Academic organisation: Internal Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

IGK 900 Internal medicine 900
Academic organisation: Internal Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

IGK 990 Thesis: Internal medicine 990
Academic organisation: Internal Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

IKT 200 Introduction to clinical dentistry 200
Academic organisation: Dental Management Sciences
Prerequisite: BOK 121, CMY 151, FIL 155, GNK 120, GNK 127, GNK 128, MGW 112, MLB 111, MTL 180, PHY 131
Contact time: 1 other per week 3 ppw 4 lpw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 10

IKX 700 Interpersonal communication 700
Academic organisation: Occupational Therapy
Contact time: 4 dpw 6 spw 4 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 60
Module content:
The interpersonal process. Factors influencing communication. Intervention strategies. Pathology factors which influence the communication process.

INX 700 Instrumentation 700
Academic organisation: Radiography
Contact time: 1 dpw 1 lpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

KDE 700 Nuclear medicine 700
Academic organisation: Radiography
Contact time: 1 dpw 1 spw 1 lpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 50

KDE 701 Nuclear medicine 701
Academic organisation: Radiography
Contact time: 1 dpw 2 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

KDE 801 Nuclear medicine 801
Academic organisation: Nuclear Medicine
Prerequisites: ANA 809, FSG 801, KDE 802, PAG 801, RCF 800
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

KDE 802 Nuclear physics 802
Academic organisation: Nuclear Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

KDE 890 Dissertation: Nuclear medicine 890
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

KEM 800 Clinical epidemiology 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24
Module content:
Students will be required to satisfactorily complete an individualised series of modules, compiled in conjunction with consultants in the department. The list of available modules will differ from year to year, depending upon the demand for the modules in question. The list of available modules will also be reviewed from time to time, in accordance with the changes in the field of public health. A list of the modules offered at present is obtainable from the departmental secretary (Tel 012 354 1472).

KEM 890 Dissertation: Clinical epidemiology 890
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

KGE 800 Paediatrics 800
Academic organisation: Paediatrics
Prerequisites: ANA 805, FSG 801, PAG 802
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

KGE 802 Paediatrics 802
Academic organisation: Paediatrics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

KGE 900 Paediatrics 900
Academic organisation: Paediatrics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

KGE 990 Thesis: Paediatrics 990
Academic organisation: Paediatrics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

KGM 701 Maxillofacial and oral surgery 701
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

KGM 800 Maxillofacial and oral surgery 800
Academic organisation: Maxillofacial and Oral Surgery
Contact time: 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

KGM 802 Maxillofacial and oral surgery 802
Academic organisation: Maxillofacial and Oral Surgery
Contact time: 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 700

KGM 803 Maxillofacial and oral surgery 803
Academic organisation: Maxillofacial and Oral Surgery
Contact time: 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

KGM 890 Dissertation: Maxillofacial and oral surgery 890
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

KGM 891 Clinical training 891
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 120

KGM 895 Essay: Maxillofacial and oral surgery 895
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

KGM 990 Thesis: Maxillofacial and oral surgery 990
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

KGR 801 Maxillofacial röntgenology 801
Academic organisation: Dental Management Sciences
Period of presentation: Year
Language of tuition: English **Credits:** 24

KGW 800 Quantitative health sciences 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

KGW 890 Dissertation: Quantitative health sciences 890
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

KOZ 701 Clinical oncology and tumour pathology 701
Academic organisation: Radiography
Contact time: 1 lpw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 10

KRT 700 Medical criminalistics 700
Academic organisation: Forensic Health Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

KRT 800 Medical criminalistics 800
Academic organisation: Forensic Health Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

KRT 890 Dissertation: Medical criminalistics 890
Academic organisation: Forensic Health Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

KVG 110 Clinical nursing science 110
Academic organisation: Nursing Science
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 10
Module content:
Statutory framework and scientific basis for clinical nursing practice.
Clinical nursing practice: legal aspects, statutory and professional control. Homeostasis, basic sciences and critical thinking exercises in clinical nursing. Problem-driven clinical nursing practice.
Problem-solving: characteristics, advantages and the problem-solving process. Problem-

solving and the nursing process. Aspects of systems-oriented nursing care: assessment, diagnosis, planning, implementing and evaluation.

KVG 120 Clinical nursing science 120
Academic organisation: Nursing Science
Prerequisite: KVG 110
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 10
Module content:
Clinical reasoning in nursing practice.
Clinical judgement and clinical decision-making. Contextual and task features of clinical decision-making. Strategies to improve clinical reasoning. Clinical reasoning in the assessment of disease processes and in the evaluation of treatment modalities for disease processes in nursing practice.
Reflective clinical nursing practice.
Reflective nursing practice: principles and application. Delivery of problem-driven, problem-based and holistic nursing care within acute care settings.

KVG 250 Clinical nursing science 250
Academic organisation: Nursing Science
Prerequisite: KVG 110,KVG 120
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 33
Module content:
Theory of specialised nursing practice
In one of the following clinical nursing speciality areas: critical care, emergency nursing, advanced midwifery, neonatal nursing science, child nursing science or operating theatre nursing science. Contemporary problems and practice issues.

KVG 260 Clinical nursing science 260
Academic organisation: Nursing Science
Prerequisite: KVG 250
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 34
Module content:
Theory of specialised nursing practice
In one of the following clinical nursing speciality areas: critical care, emergency nursing, advanced midwifery, neonatal nursing science, child nursing science or operating theatre nursing science. Contemporary problems and practice issues.

KVG 300 Clinical nursing science 300
Academic organisation: Nursing Science
Prerequisite: KVG 250,KVG 260
Contact time: 2 lpw 2 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 40
Module content:
Role and functions of clinical nursing specialists in their area of specialisation. Contemporary trends, issues and dilemmas in clinical nursing practice.

KVH 701 Clinical skills in hand therapy 701
Academic organisation: Occupational Therapy
Contact time: 12 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 40
Module content:
Study and application of:
- Evaluation methods and instruments for hand and upper limb injuries
- Current techniques in hand therapy.

LCP 180 Longitudinal clinic attachment programme 180
Academic organisation: Health Sciences Dean's Office
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 0
Module content:
The longitudinal clinic attachment programme will link students to one of about 40 clinics in Pretoria and its surrounds. Each student is allocated to a specific clinic in Tshwane, Hammanskraal or Metsweding for a four-year period – medical students from the middle of the first year to the middle of the fifth year, and dentistry students from the middle of the first year to the end of the second year. Students will visit these clinics during the course of each block and special activity as negotiated with each block and rotation chair. The activities they do at the clinic will be the practical application of the theory they acquired in class with the added benefit of the experience of the context of the patient and the healthcare system.

LCP 280 Longitudinal clinic attachment programme 280
Academic organisation: Health Sciences Dean's Office
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 0
Module content:
The longitudinal clinic attachment programme will link students to one of about 40 clinics in Pretoria and its surrounds. Each student is allocated to a specific clinic in Tshwane, Hammanskraal or Metsweding for a four-year period – medical students from the middle of the first year to the middle of the fifth year, and dentistry students from the middle of the first year to the end of the second year. Students will visit these clinics during the course of each block and special activity as negotiated with each block and rotation chair. The activities they do at the clinic will be the practical application of the theory they acquired in class with the added benefit of the experience of the context of the patient and the healthcare system.

LCP 380 Longitudinal clinic attachment programme 380
Academic organisation: Health Sciences Dean's Office
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 0
Module content:
The longitudinal clinic attachment programme will link students to one of about 40 clinics in Pretoria and its surrounds. Each student is allocated to a specific clinic in Tshwane, Hammanskraal or Metsweding for a four-year period – medical students from the middle of the first year to the middle of the fifth year, and dentistry students from the middle of

the first year to the end of the second year. Students will visit these clinics during the course of each block and special activity as negotiated with each block and rotation chair. The activities they do at the clinic will be the practical application of the theory they acquired in class with the added benefit of the experience of the context of the patient and the healthcare system.

LCP 480 Longitudinal clinic attachment programme 480
Academic organisation: Health Sciences Dean's Office
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 0
Module content:
The longitudinal clinic attachment programme will link students to one of about 40 clinics in Pretoria and its surrounds. Each student is allocated to a specific clinic in Tshwane, Hammanskraal or Metsweding for a four-year period – medical students from the middle of the first year to the middle of the fifth year, and dentistry students from the middle of the first year to the end of the second year. Students will visit these clinics during the course of each block and special activity as negotiated with each block and rotation chair. The activities they do at the clinic will be the practical application of the theory they acquired in class with the added benefit of the experience of the context of the patient and the healthcare system.

LCP 580 Longitudinal clinic attachment programme 580
Academic organisation: Health Sciences Dean's Office
Contact time: 4 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 0
Module content:
The longitudinal clinic attachment programme will link students to one of about 40 clinics in Pretoria and its surrounds. Each student is allocated to a specific clinic in Tshwane, Hammanskraal or Metsweding for a four-year period – medical students from the middle of the first year to the middle of the fifth year, and dentistry students from the middle of the first year to the end of the second year. Students will visit these clinics during the course of each block and special activity as negotiated with each block and rotation chair. The activities they do at the clinic will be the practical application of the theory they acquired in class with the added benefit of the experience of the context of the patient and the healthcare system.

LHE 770 Executive leadership in health (including responsible leadership) 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
The application of the principles of Executive Leadership in the health sector will be examined with focus on several modalities of leadership including meta-leadership with a focus on examining why its application by health leaders are met with so much difficulty. The challenges which prevail in the pilot districts for the National Health Insurance will be analysed. Participants will be expected to do pre-course reading in preparation for the module as well as a post-module assignment which may include the writing up and development of a strategic plan with a focus on executive leadership principles. Application of responsible leadership strategies in to the public health sector. The focus

on contemporary views of responsible leadership in South Africa and measures to redress the shortcomings in taking responsibility and being accountable for your actions. What is the vision for responsible leadership on the horizon in the next 5 to 15 years and how can a health manager reposition his/her thinking to meet the demands and the role they are to play in the new NHI-funded system in the position they presently occupy. What does it mean to lead in a responsible manner be it at district, provincial or national level. This will include the call for courageous scholarship and strategies to lead collectively in a responsible manner.

LMX 700 Laboratory management 700
Academic organisation: Chemical Pathology
Contact time: 15 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

LRG 700 Aerospace medicine 700
Academic organisation: School of Health Systems and Public Health
Contact time: 3 contact weeks per year, each consisting of 8 hours per day for 5 days, including group discussions, problem feedback, class presentations, specialised lectures and visits to industry.
Period of presentation: Year
Language of tuition: English **Credits:** 85
Module content:
The purpose of this module is to teach the fundamentals of aerospace medicine.
Topics addressed in this module include:
Aviation physiology (The aviation working environment, cognition, decision making, communication, sleep and fatigue, physics of the atmosphere, hypobarism, hypoxia, vision, spatial disorientation, acceleration, radiation, noise, vibration hyper/hypothermia.)
Clinical aviation medicine (Incapacitation during flight, aging, cardiology, neurology, ophthalmology, ENT, pulmonology, psychiatry, metabolic/endocrine, malignancy, digestive system, haematology, urinary, renal, gynaecological/obstetric, musculoskeletal, infective, medication.)
Aviation medical regulations (Regulations of the International Civil Aviation Organisation and the South African Civil Aviation Authority.)

LRG 871 Aerospace medicine 871
Academic organisation: School of Health Systems and Public Health
Contact time: 3 contact weeks per year, each consisting of 8 hours per day for 5 days, including group discussions, problem feedback, class presentations, specialised lectures and visits to industry.
Period of presentation: Year
Language of tuition: English **Credits:** 60
Module content:
The purpose of this module is to teach the fundamentals of aerospace medicine.
Topics addressed in this module include:
Aviation Physiology(The Aviation working environment, cognition, decision-making, communication, sleep and fatigue, physics of the atmosphere, hypobarism, hypoxia, vision, spatial disorientation, acceleration, radiation, noise, vibration hyper/hypothermia)
Clinical Aviation Medicine (Incapacitation during flight, aging, cardiology, neurology, ophthalmology, ENT, pulmonology, psychiatry, metabolic/endocrine, malignancy, digestive system, haematology, urinary, renal, gynaecological/obstetric, musculoskeletal, infective, medication)

Aviation medical regulations (Regulations of the International Civil Aviation Organisation and the South African Civil Aviation Authority)
Travel Medicine

LRG 890 Dissertation: Aerospace medicine 890
Academic organisation: Aerospace Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 240

LRG 900 Aerospace medicine 900
Academic organisation: Aerospace Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 1

LRG 990 Aerospace medicine 990
Academic organisation: Aerospace Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 480

LRM 771 Laboratory management 771
Academic organisation: Chemical Pathology
Contact time: 12 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MBG 705 Microbiology 705
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MBG 800 Microbiology 800
Academic organisation: Medical Microbiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

MBG 802 Microbiology 802
Academic organisation: Medical Microbiology
Prerequisites: APA 800
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MBL 120 Human biology 120
Academic organisation: Physiology
Prerequisite: MLB 111
Contact time: 4 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 9

MCH 700 Oral surgery 700
Academic organisation: Maxillofacial and Oral Surgery
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

MCH 800 Oral surgery 800
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 120

MCH 890 Dissertation: Oral surgery 890
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

MCH 895 Essay: Oral surgery 895
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MDB 171 Oral biology 171
Academic organisation: Oral Pathology and Oral Biology
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 8
Module content:
This module will provide the oral hygiene student with a broad basic knowledge on the development, normal macroscopic and microscopic structure and functions of the oral cavity, teeth and related structures. The module content will serve as preknowledge for clinical subjects and oral pathology in the oral hygiene programme.

MDB 270 Oral biology 270 (*offered as from 2015*)
Academic organisation: Oral Pathology and Oral Biology
Contact time: 2 lpw 2 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 11
Module content:
This module is the study of the development, macroscopic and microscopic structure and function of tissue of the mouth and related structures with emphasis on the application in clinical dentistry. This module also includes the study of relevant molecular biology.

MDB 370 Oral biology 370
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: BOK 280, BOK 281 or (BOK 285,287), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 2 lpw 2 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 11
Module content:
This module is the study of the development, macroscopic and microscopic structure and function of tissue of the mouth and related structures with emphasis on the application in clinical dentistry. This module also includes the study of relevant molecular biology.

MDB 710 Applied oral biology 710
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

MDB 800 Oral biology 800
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MDB 801 Oral biology 801
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MDN 700 Medical oncology 700
Academic organisation: Medical Oncology
Contact time: 1 dpw 1 spw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96

MDN 800 Medical oncology 800
Academic organisation: Medical Oncology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

MDN 801 Medical oncology 801
Academic organisation: Medical Oncology
Prerequisites: ANA 800, FSG 801, FAR 806, PAG 808
Contact time: 1 lpw 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

MDN 890 Dissertation: Medical oncology 890
Academic organisation: Medical Oncology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 240

MDN 900 Medical oncology 900
Academic organisation: Medical Oncology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

MDN 990 Thesis: Medical oncology 990
Academic organisation: Medical Oncology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

MEH 771 Health informatics, monitoring and evaluation 771
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Participants will be taught the importance of evidence-based public health and how to use health data, interpret the data, use the data for planning and for evaluation. The critical importance of how strategically to monitor and evaluate all programmes and systems and

how practical leadership requires in-depth knowledge of how to use review systems for forward planning. The use of knowledge management modalities will be used in health planning and participants will be required to design a Monitoring and Evaluation system that can be used at their workplace for better results in healthcare delivery.

MFG 777 Human physiology 777
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 96
Module content:
[BScHons with specialisation in Human Physiology]
- Basic physiology: Self-tuition
- Applied physiology: 22 lectures and self-tuition
- Research techniques: 11 lectures and demonstrations
- Seminars: Two per student: approved topics
- Journal discussions: Two per student
- Research project: Submission of protocol, execution of project under supervision and presentation of results required. Final results are submitted in the form of an essay.

MFG 807 Human physiology 807
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

MFG 890 Dissertation: Human physiology 890
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

MFG 900 Human physiology 900
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

MFG 990 Thesis: Human physiology 990
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

MFM 801 Medical pharmacology 801
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

MFM 802 Medical pharmacology 802
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

MFM 803 Medical pharmacology 803
Academic organisation: Pharmacology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30

MFP 371 Maxillofacial pathology 371
Academic organisation: Oral Pathology and Oral Biology
Prerequisites: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw for 30 weeks
Period of presentation: Year
Language of tuition: Double medium **Credits:** 8
Module content:
This module introduces the oral hygiene student to the Maxillofacial pathology commonly encountered in general practice. It will enable the student to differentiate between variants of normal and pathological lesions. A basic knowledge of the etiology, pathogenesis, and clinical appearance of the lesions will be acquired. Selected treatment modalities relevant to the oral hygienist will also be discussed in this module.

MFP 470 Maxillofacial pathology 470
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, RAD 370, TBW 370, ODO 370, PDL 370, DFA 370
Contact time: 1 lpw 1 ppw 1 dpw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 11
Module content:
The modules in this subject will empower the student with knowledge of the embryology, anatomy, physiology and pathology of the oral mucosa, the salivary glands, intra- and extraoral soft tissue and bone in order to diagnose and manage lesions, diseases and conditions of the oral mucosa, salivary glands, intra and extraoral soft tissue and bone.

MFP 570 Maxillofacial pathology 570
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: TBW 470, ODO 470, MFP 470, PDL 470, DFA 470, OFC 470, PTK 470, GAP 470, TMZ 470
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
The modules in this subject will empower the student with knowledge of the embryology, anatomy, physiology and pathology of the oral mucosa, the salivary glands, intra- and extraoral soft tissue and bone in order to diagnose and manage lesions, diseases and conditions of the oral mucosa, salivary glands, intra- and extraoral soft tissue and bone.

MGK 700 Oral medicine 700
Academic organisation: Periodontics and Oral Medicine
Contact time: 4 dpw 4 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

MGN 700 Human genetics 700
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 48

MGN 790 Essay: Human genetics 790
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 48

MGN 800 Human genetics 800
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

MGN 802 Human genetics 802
Academic organisation: Human Genetics and Developmental Biology
Contact time: 14 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 24

MGN 890 Dissertation: Human genetics 890
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

MGN 900 Human genetics 900
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

MGN 990 Thesis: Human genetics 990
Academic organisation: Human Genetics and Developmental Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

MHP 780 Human resources planning 780
Academic organisation: Community Dentistry
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

MIG 800 Military medicine: Internal medicine 800
Academic organisation: Internal Medicine
Prerequisites: FSG 801, VGN 800, IGK 804, CHR 801, RAT 800
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

MMB 700 Oral microbiology 700
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

MMS 800 Essay: MMed 800
Academic organisation: Health Sciences Dean's Office
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

MNX 310 Medical nutrition therapy 310
Academic organisation: Human Nutrition
Prerequisites: 3rd-year status
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 9
Module content:
Introduction to the origin of diseases as a consequence of programmed changes that occur during impaired intrauterine growth and development. Aetiology and clinical manifestations of under-nutrition/PEM; principles and practices of medical nutrition therapy in under-nutrition/PEM; impact and influence of worm infestation. Congenital heart disease and special problems related to children with congenital heart disease. Relationship between malnutrition and Aids; role of nutrition in immunity within the context of HIV/Aids; clinical signs, symptoms and problems associated with Aids and guidelines for the alleviation of these symptoms; nutritional related problems of medication used by Aids patients. Appropriate practical assignments and case studies.

MNX 322 Medical nutrition therapy 322
Academic organisation: Human Nutrition
Prerequisite: FLG 221, FLG 222, BCM 261, BCM 262, VDS 221, HNT 220, AGV 413, BCM 251, BCM 252, DTT 222
Contact time: 3 dpw 4 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 50
Module content:
Nutrition care process. Role of diet and nutrition in the etiology and treatment of under-nourishment, obesity, diabetes mellitus, hypoglycaemia, hypertension, hyperlipo-protein-aemia and coronary heart disease. Disorders of the renal system. Nutrient-drug interactions. Basic principles of special nutritional care, special feeding methods and products. Appropriate practical assignments and case studies in order to practise the nutrition care process.

MNX 323 Medical nutrition therapy 323
Academic organisation: Human Nutrition
Prerequisites: 3rd-year status
Contact time: 4 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 36
Module content:
Relationships between obesity, hypertension, cardiovascular disease, insulin resistance and concomitant health risks. Aetiology, pathophysiology and manifestation(s) of type 1 and type 2 diabetes mellitus, gestational diabetes and impaired glucose tolerance; principles and practices of medical nutrition therapy of diabetes mellitus integrated with medical/pharmacological treatment; dietary treatment/prevention of complications; dietary adaptations when exercising and life style/behaviour modification. Aetiology and clinical manifestations of cardiovascular; principles and practices of medical nutrition therapy in CVD. Aetiology and clinical manifestation(s) of renal disease conditions; principles and practices of medical nutrition therapy in renal conditions (nephritic syndrome, nephrotic syndrome, acute and chronic renal failure, nephrolithiasis). Nutrient-drug interactions. Metabolic response to acute and chronic stress. Principles of special nutritional care, special feeding methods and products required for injured/critically ill patients. Appropriate practical assignments and case studies.

MNX 411 Medical nutrition therapy 411
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 3 dpw 6 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 35
Module content:
The role of diet and nutrition in the aetiology and treatment of diseases of the gastrointestinal tract and related organs, metabolic disorders and gout, diseases of neurological origin, prematurity and paediatric disease conditions. Nutritional care of physiological trauma and cancer. Nutrient-drug interactions. Appropriate practical assignments and case studies (practising the nutrition care process).

MNX 480 Medical nutrition therapy 480
Academic organisation: Human Nutrition
Prerequisite: MNX 411
Contact time: 5 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 50

MPB 890 Dissertation: Oral pathology and oral biology 890
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

MPG 700 Oral pathology 700
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

MPG 702 Oral pathology 702
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

MPG 710 Oral pathology 710
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

MPG 800 Oral pathology 800
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MPG 801 Oral pathology 801
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MPG 802 Oral pathology 802
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 500

MPG 803 Oral pathology 803
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MPG 804 Oral pathology 804
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MPG 806 Maxillofacial and oral radiology 806
Academic organisation: Maxillofacial and Oral Surgery
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

MPG 890 Dissertation: Oral pathology 890
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

MPG 990 Thesis: Oral pathology and oral medicine 900
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

MPX 800 Molecular pathology 800
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 120

MRZ 310 Ethics and law in healthcare 310
Academic organisation: Physiotherapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 231, FTP 241, POL 251
Contact time: 10 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 8
Module content:
Consult the head: Human nutrition division for the syllabus.

MTS 801 Medical applied psychology 801
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

MTS 802 Transcultural practice 802
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 803 Personality theory 803
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 804 Human development 804
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 805 Research methodology 805
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 806 Pathology 806
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 807 Communication theory 807
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 808 Practical work: Medical applied psychology 808
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 36

MTS 890 Dissertation: Medical applied psychology 890
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 100

NAV 882 Research report: Preparation 882
Academic organisation: Pharmacology
Contact time: 1 lpw 1 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 40

NAV 883 Research report 883
Academic organisation: Pharmacology
Contact time: 1 dpw 1 other per week
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 40

NCR 800 Neurosurgery 800
Academic organisation: Neurosurgery
Prerequisites: ANA 894, FSG 801, ANP 875, BVC 801
Contact time: 2 spw 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

NCR 900 Neurosurgery 900
Academic organisation: Neurosurgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

NCR 990 Thesis: Neurosurgery 990
Academic organisation: Neurosurgery
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

NFG 700 Neurophysiology 700
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

NGK 801 Emergency medicine 801
Academic organisation: Family Medicine
Prerequisites: ANA 802, FSG 801, FAR 880, PAG 880
Contact time: 1 ppw 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

NHS 171 First aid 171
Academic organisation: Community Dentistry
Contact time: 2.5 days of lectures
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 5
Module content:
The practical-orientated first-aid training will empower the oral hygiene student with a working knowledge of day-to-day emergencies, both in the workplace and at home. At this entry-level training the student will partake in the practical aspects of bleeding and wound management, cardio pulmonary resuscitation, care for unconscious patients and choking to name a few. The module content will assist the oral hygiene student in managing medical emergencies in the dental surgery.

NNC 801 Neurology/Neurosurgery 801
Academic organisation: Neurosurgery
Contact time: 5 ppw 5 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

NPE 161 Nursing practice education 161
Academic organisation: Nursing Science
Contact time: 1 other per week
Period of presentation: Semester 1

Language of tuition: English **Credits:** 24
Module content:
Clinical learning experiences and laboratory work: these modules comprise 240 hours of compulsory clinical practical and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 162 Nursing practice education 162
Academic organisation: Nursing Science
Contact time: 1 other per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 24
Module content:
Clinical learning experiences and laboratory work: these modules comprise 240 hours of compulsory clinical practical and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 261 Nursing practice education 261
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 and 122.
Contact time: 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 24
Module content:
Clinical learning experiences and laboratory work: these modules comprise 240 hours of compulsory clinical practical and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 262 Nursing practice education 262
Academic organisation: Nursing Science
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, NUR 151, NUR 152, NUR 153, NUR 154, AIM 101, ELH 121 en 122.
Contact time: 1 other per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 24
Module content:
Clinical learning experiences and laboratory work: these modules comprise 240 hours of compulsory clinical practical and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 361 Nursing practice education 361
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30
Module content:
Note: NPE 361 assessment for semester mark:

General nursing science 60%, midwifery 20% and psychiatry 20%.
Final assessment: General nursing science 30% midwifery 20% psychiatry 20%, community 30%.
Clinical learning experiences and laboratory work: these modules comprise 300 hours of compulsory clinical practical work and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 362 Nursing practice education 362
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253,DNP 254,NPE 261,NPE 262
Contact time: 1 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 30
Module content:
NB: NPE 362 semester mark: General nursing science 20%, midwifery 40%, community/PHC 20%, management 20%.
Final assessment: General nursing science comprehensive assessment 80%. (Pharmacology, management, general nursing science and PHC) and midwifery OSCE 20%.
Clinical learning experiences and laboratory work: these modules comprise 300 hours of compulsory clinical practical work and laboratory work each (per semester). Students will complete these modules in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 461 Nursing practice education 461
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 1 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 50
Module content:
Clinical learning experiences and laboratory work: this module comprises 500 hours of compulsory clinical practical and laboratory work each (per semester). Students will complete this module in specified healthcare units.
NB: Only selected BCur students may register for this module.

NPE 462 Nursing practice education 462
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 1 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 50
Module content:
Clinical learning experiences and laboratory work: this module comprises 500 hours of compulsory clinical practical work and laboratory work each (per semester). Students will complete this module in specified healthcare units.
NB: Only selected BCur students may register for this module.

NRE 800 Neurology 800
Academic organisation: Neurology
Prerequisites: PAG 805, ANA 891, FSG 801
Period of presentation: Year
Language of tuition: English **Credits:** 300

NRE 801 Neurology 801
Academic organisation: Neurology
Period of presentation: Year
Language of tuition: English **Credits:** 36

NRE 900 Neurology 900
Academic organisation: Neurology
Period of presentation: Year
Language of tuition: English **Credits:** 1

NRE 990 Thesis: Neurology 990
Academic organisation: Neurology
Period of presentation: Year
Language of tuition: English **Credits:** 480

NTA 313 Nutritional assessment 313
Academic organisation: Human Nutrition
Prerequisite: Third-year status
Contact time: 1 ppw 4 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 46
Module content:
Evaluation of nutritional assessment.
Nutrition care process, overview of evaluation of nutritional status. Scientific principles of evaluation of nutritional status; nutritional screening; clinical, biochemical and dietary evaluation of nutritional status.
Practice training: practising of theoretical principles of nutrition status evaluation in hospital/clinic and/or skills laboratory.

NUR 151 Nursing studies 151
Academic organisation: Nursing Science
Contact time: 3 lpw 2 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 12
Module content:
Fundamentals of nursing science
Introduction and concept clarification: nursing, nursing science, health and illness. Approaches to nursing and perspectives on human beings and their world. The art and science of nursing. Philosophical foundations of nursing. Overview of the history of nursing. Aspects of professional practice. The scientific approach to nursing. Human needs as the basis for nursing practice. The wellness-illness continuum.
NB: Only selected BCur students may register for this module.

NUR 152 Nursing studies 152
Academic organisation: Nursing Science
Contact time: 3 lpw 2 ppw

Period of presentation: Quarter 2
Language of tuition: English **Credits:** 12
Module content:
Human needs and development in health and illness.
Humans as biological, psychological and spiritual beings within socio-economic and cultural contexts. Basic needs: nutrition, comfort and activity, rest and sleep, elimination, hygiene, oxygen, learning, sensory and interpersonal, pain management, safety, homeostasis, growth and development, medication needs, spiritual needs and the need for a dignified death. Self-image, own identity and self-actualisation. Relevant aspects of human nutrition. Human developmental stages and the unique needs associated with each stage.
NB: Only selected BCur students may register for this module.

NUR 153 Nursing studies 153
Academic organisation: Nursing Science
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 12
Module content:
Environment, society and communities and its influence on nursing science.
The environment as determinant of health and wellness. Environmental hygiene. Societal and community phenomena, sectors, stratification and institutions. Marginalised communities in South Africa. The impact of disease on families, communities and society. Community-based health services and the role of the hospital as community institution.
NB: Only selected BCur students may register for this module.

NUR 154 Nursing studies 154
Academic organisation: Nursing Science
Contact time: 3 lpw 2 ppw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 12
Module content:
Provision of healthcare to communities and the nursing management of minor ailments.
Comprehensive healthcare and the multidisciplinary team approach. Community involvement and participation in the provision of health services. Community empowerment. Introduction to public health and systems of healthcare. Care of the elderly. Selected minor ailments of the upper respiratory tract, oral cavity and skin: earache, sore throat, colds and flu, sinusitis, tonsillitis, halitosis and oral and integumentary health.
NB: Only selected BCur students may register for this module.

NUR 251 Nursing studies 251
Academic organisation: Nursing Science
Prerequisite: FSG 161, FSG 162, NPE 161, NPE 162, NUR 151, NUR 152, NUR 153, NUR 154, DNP 151, DNP 152, AIM 101, ELH 121 and 122.
Contact time: 3 lpw 2 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 11
Module content:
Introduction to medical-surgical and trauma nursing science.
The medical and surgical approach to healthcare. Acute versus chronic illness. The influence of disease and hospitalisation on the adult health service consumer. Aspects of professional practice. Relevant assessment skills. Aspects of trauma nursing. Applied

human nutrition. Intrinsic and extrinsic causes of disease. Cellular stressors, adaptive processes, abnormal cellular growth, cell damage, repair and cell death. Neoplasia and tumor pathology. General disturbances of homeostasis. Introduction to genetics and inheritance of disease. Aspects of medical emergency nursing.
NB: Only selected BCur students may register for this module.

NUR 252 Nursing studies 252
Academic organisation: Nursing Science
Prerequisite: NUR 151, NUR 152, NUR 153, NUR 154, DNP 151, DNP 152, DNP 153, DNP 154, NPE 161, NPE 162, AIM 101, ELH 121 and 122.
Contact time: 2 ppw 3 lpw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 11
Module content:
Surgical nursing science
Comprehensive perioperative nursing of patients with common surgical health problems of injuries related to the musculo-skeletal, neurological, gastro-intestinal and respiratory system, the eye and reproductive health. Relevant assessment skills. Soft tissue injuries, surgical wounds and wound care techniques: wounds and wound healing, relevant assessment skills, aseptic wound care procedures (principles and techniques), modern wound care products and evidence-based practice, traumatic wounds (including burn trauma) and chronic wounds. Applied human nutrition. Inflammation, infection and necrosis.
NB: Only selected BCur students may register for this module.

NUR 253 Nursing studies 253
Academic organisation: Nursing Science
Prerequisite: NUR 151, NUR 152, NUR 153, NUR 154, DNP 151, DNP 152, DNP 153, DNP 154, NPE 161, NPE 162, AIM 101, ELH 121 and 122.
Contact time: 2 lpw 2 ppw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 11
Module content:
Medical nursing science
Comprehensive medical nursing of patients with common medical health problems related to the respiratory, neurological, digestive, renal, endocrine and cardiovascular system, acute poisoning, cancer and haematological problems (anemia and leukemia) and metabolic disturbances. Disturbances of circulation and oedema formation. Overview of hypersensitivity reactions and auto-immune disorders. Examples from the clinical practice of nursing. Relevant assessment skills. Applied human nutrition.
NB: Only selected BCur students may register for this module.

NUR 254 Nursing studies 254
Academic organisation: Nursing Science
Prerequisite: NUR 151, NUR 152, NUR 153, NUR 154, DNP 151, DNP 152, DNP 153, DNP 154, NPE 161, NPE 162, AIM 101, ELH 121 and 122.
Contact time: 2 ppw 2 lpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 11
Module content:
Principles of child health nursing science
Unique needs during the childhood years. Common childhood health problems:

respiratory, cardiovascular and pain management, diarrhoea, nausea and vomiting, malnutrition and failure to thrive. Applied human nutrition. The effects of hospitalisation on children and their families. Therapeutic play and support of the child and nurse-therapeutic interventions with children. The unique world of the sick child and alternative approaches to illness through play therapy. Aspects of paediatric emergency nursing.
NB: Only selected BCur students may register for this module.

NUR 255 Integrative healthcare 255
Academic organisation: Nursing Science
Contact time: 3 lpw
Period of presentation: Quarter 3
Language of tuition: English **Credits:** 11
Module content:
Principles, perspectives, ethical-legal consideration and legislation relating to integrative healthcare, traditional healing in Africa, healing modalities related to natural and manual complementary therapies, nutritional and medicinal importance of indigenous plants.
NB: Only selected BCur students may register for this module.

NUR 351 Nursing studies 351
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 18
Module content:
Gender health nursing sciences
Male gender health nursing. Female gender health nursing. Family planning (contraception, infertility and preconception care). Sexual development and sexual needs, gender relationships and gender issues, role identity and role conflict. Sexual deviance and sexual abuse. Violence against women and children.
NB: Only selected BCur students may register for this module.

NUR 352 Nursing studies 352
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 4 lpw 1 ppw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 18
Module content:
Midwifery science: accompaniment during pregnancy
Overview of the perinatal period. Embryology and foetal growth and development. The normal pregnancy, unique needs of the pregnant woman and low-risk antenatal care. Relevant assessment skills. Applied human nutrition.
NB: Only selected BCur students may register for this module.

NUR 353 Nursing studies 353
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 4 lpw 1 ppw

Period of presentation: Quarter 3
Language of tuition: English **Credits:** 18
Module content:
Midwifery science: accompaniment during normal childbirth and puerperium
The course of the intrapartum period, related needs and low-risk postnatal care. Relevant assessment skills. Applied human nutrition.
NB: Only selected BCur students may register for this module.

NUR 354 Nursing studies 354
Academic organisation: Nursing Science
Prerequisite: NUR 251, NUR 252, NUR 253, NUR 254, DNP 251, DNP 252, DNP 253, DNP 254, NPE 261, NPE 262
Contact time: 1 ppw 4 lpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 18
Module content:
Midwifery science: high-risk pregnancy
Maternal and perinatal morbidity and mortality and notification. Risk assessment of mother and foetus. Relevant assessment skills. Nursing care related to specific health needs and problems during the antenatal period.
NB: Only selected BCur students may register for this module.

NUR 451 Nursing studies 451
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 4 lpw 2 ppw
Period of presentation: Quarter 1
Language of tuition: English **Credits:** 18
Module content:
Midwifery science: High-risk childbirth
Abnormal course of the intrapartum period, related needs and management. Foetal monitoring. Rupture of membranes, pre-term and post-term labour. Obstetric injuries and emergencies. Nurse-therapeutic support during the lived experience of high-risk pregnancy and pregnancy-related complications. Relevant assessment skills.
NB: Only selected BCur students may register for this module.

NUR 452 Nursing studies 452
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 4 lpw 2 ppw
Period of presentation: Quarter 2
Language of tuition: English **Credits:** 18
Module content:
Midwifery science: High-risk puerperium and the high-risk neonate
High-risk post-natal care. Characteristics and needs of the neonates. Principles of nursing care in respect of healthy and sick or high-risk neonates. Comprehensive nursing of neonates with specific problems. Relevant assessment skills. Applied human nutrition.
NB: Only selected BCur students may register for this module.

NUR 456 Nursing studies 456
Academic organisation: Nursing Science
Prerequisite: NUR 351, NUR 352, NUR 353, NUR 354, DNP 351, DNP 352, DNP 353, DNP 354, NPE 361, NPE 362
Contact time: 4 lpw 2 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40
Module content:
Nursing elective.
An approved elective, chosen in consultation with the head of the department.
- Themes from community nursing science and primary healthcare
- Themes from psychiatric nursing science and therapeutic conversations
- Themes from general medical nursing science
- Themes from general surgical nursing science
- Themes from hospital-based midwifery science

The availability of electives will depend on student interest and the availability of staff and training facilities. Students need to enquire about prospective electives before registering for this module.
Ten (10) credits of the above elective should include content on research-based practice (or a research project), contemporary practice issues, international nursing studies and ethical and legal aspects of healthcare practice within the chosen elective.
NB: Only selected BCur students may register for this module.

NVB 700 Research principles 700
Academic organisation: Radiography
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20

OCM 770 Principles of occupational medicine 770
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

OCM 771 Clinical skills in occupational medicine 771
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
*Attendance module only

OCM 870 Principles: Occupational medicine 870
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

OCM 871 Clinical skills in occupational health 871
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 5

ODO 171 Odontology 171
Academic organisation: Odontology
Contact time: 2 ppw 1 other per week 1 spw 1 lpw 1 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 12
Module content:
This module will enable the oral hygiene student to be competent in the evaluation of the oral health status of the child, adolescent, adult and geriatric patient in terms of diseases related to the hard tissues of the oral cavity plus the pulpa and peri-apical tissues, and be able to:

- correctly diagnose the diseases
- correctly diagnose the patient's risk profile
- instruct a patient to be capable of exercising self-protective measures
- change the behavioral pattern of the patient through motivation
- create resistant and optimally maintainable dental hard tissues for oral health
- reverse early lesions where possible
- refer patients for restorative and rehabilitative treatment.

ODO 270 Odontology 270 (*offered as from 2015*)
Academic organisation: Odontology
Contact time: 1 clinical session per week
Period of presentation: Year
Language of tuition: English **Credits:** 6
Module content:
Chair-side assisting: This clinical training entails the chair-side assisting of senior dental students during the treatment of patients.

ODO 271 Odontology 271
Academic organisation: Odontology
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 2 lpw 15 weeks, 20 p (2 h) over 30 weeks
Period of presentation: Year
Language of tuition: English **Credits:** 7
Module content:
This module is a continuation of ODO 171 Odontology 171. It will enable the oral hygiene student to be competent in the evaluation of the oral health status of the child, adolescent, adult and geriatric patient in terms of diseases related to the hard tissues of the oral cavity plus the pulpa and peril-apical tissues, and be able to:

- correctly diagnose the diseases.
- correctly diagnose the patient's risk profile.
- instruct a patient to be capable of exercising self-protective measures.
- change the behavioural pattern of the patient through motivation.
- create resistant and optimally maintainable dental hard tissues for oral health.
- reverse early lesions where possible.
- refer patients for restorative and rehabilitative treatment.

ODO 370 Odontology 370
Academic organisation: Odontology
Prerequisite: BOK 280, BOK 281, BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 1 dpw 2 lpw 2.6 ppw

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 42
Module content:
The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training. The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

ODO 470 Odontology 470
Academic organisation: Odontology
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, RAD 370, TBW 370, ODO 370, PDL 370, DFA 370
Contact time: 4.67 ppw 1 dpw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 71
Module content:
The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training . The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

ODO 570 Odontology 570
Academic organisation: Odontology
Prerequisite: TBW 470, ODO 470, MFP 470, PDL 470, DFA 470, OFC 470, PTK 470, GAP 470, TMZ 470
Contact time: 4.67 ppw 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 52
Module content:
The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training. The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

ODO 701 Integrated odontology 701
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

ODO 800 Examination: MSc (Odontology) 800
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

ODO 890 Dissertation: MSc (Odontology) 890
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

ODO 990 Thesis: Odontology 990
Academic organisation: Odontology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

OEG 800 Obstetrics and gynaecology 800
Academic organisation: Obstetrics and Gynaecology
Prerequisites: ANA 803, FSG 801, OEG 801
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

OEG 801 Obstetrics and gynaecology 801
Academic organisation: Obstetrics and Gynaecology
Prerequisites: ANP 803
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

OEG 900 Obstetrics and gynaecology 900
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

OEG 990 Thesis: Obstetrics and gynaecology 990
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

OFC 271 Orofacial surgery 271
Academic organisation: Maxillofacial and Oral Surgery
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 1 lpw (20 weeks) 1p (2 h) (28 weeks)
Period of presentation: Year
Language of tuition: English **Credits:** 11
Module content:
This module is designed to provide the oral hygiene student with knowledge and skills regarding:
- local anaesthetics
- oral surgery procedures
- traumatology
- basic knowledge regarding advanced Maxillofacial surgery.

OFC 370 Orofacial surgery 370
Academic organisation: Maxillofacial and Oral Surgery
Prerequisite: BOK 280, BOK 281, BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 3 lpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
(a) Surgical anatomy: Applied surgical anatomy.
(b) Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
(c) Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
(d) Advanced oral surgery: Apaicectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthodontic surgery (review).
(e) Basic Maxillofacial surgery: Traumatology, surgical pathology, neuralgias, temporo-mandibular joint derangements.
(f) Advanced Maxillofacial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

OFC 371 Orofacial surgery 371
Academic organisation: Maxillofacial and Oral Surgery
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 p (2 h) (30 weeks)
Period of presentation: Year
Language of tuition: Double medium **Credits:** 6
Module content:
This module is a continuation of (OFC 271) Orofacial surgery 271 and consists of clinical work only.

OFC 470 Orofacial surgery 470
Academic organisation: Maxillofacial and Oral Surgery
Prerequisite: GNK 388,MDB 370,TGG 370,FSG 370,FAR 370,RAD 370,TBW 370,PDL 370,ODO 370,DFA 370
Contact time: 2 ppw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 41
Module content:
(a) Surgical anatomy: Applied surgical anatomy.
(b) Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
(c) Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
(d) Advanced oral surgery: Apaicectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthodontic surgery (review).
(e) Basic Maxillofacial surgery: Traumatology, surgical pathology, neuralgias, temporo-mandibular joint derangements.
(f) Advanced Maxillofacial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

OFC 570 Orofacial surgery 570
Academic organisation: Maxillofacial and Oral Surgery
Prerequisite: TBW 470, ODO 470, MFP 470, PDL 470, DFA 470, OFC 470, PTK 470, GAP 470, TMZ 470
Contact time: 2 ppw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 42
Module content:
(a) Surgical anatomy: Applied surgical anatomy.
(b) Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
(c) Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
(d) Advanced oral surgery: Apaicectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthodontic surgery (review).
(e) Basic Maxillofacial surgery: Traumatology, surgical pathology, neuralgias, temporomandibular joint derangements.
(f) Advanced Maxillofacial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

OGD 900 Public health 900
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 1

OGD 990 Public health 990
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 480

OGH 900 Environmental health 900
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

OGH 990 Thesis: Environmental health 990
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

OHK 800 Ophthalmology 800
Academic organisation: Ophthalmology
Prerequisites: ANP 871, ANA 876, FSG 801, GMO 800
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

OHK 900 Ophthalmology 900
Academic organisation: Ophthalmology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

OHK 990 Thesis: Ophthalmology 990
Academic organisation: Ophthalmology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

OHS 873 Postgraduate seminars in occupational hygiene 1 873
Academic organisation: School of Health Systems and Public Health
Prerequisite: FLG 322 or equivalent occupational hygiene coursework with two years practical experience in the field of occupational hygiene
Contact time: 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Introduction to the basic concepts of occupational hygiene. Topics addressed in this module include occupational hygiene principles, legislation, risk management (including risk assessment), measuring environmental factors, ergonomics, biological environmental factors, psychological environmental factors, control of environmental factors, communication and report writing and toxicology. Problem-based assignments and practical work.

OHS 874 Postgraduate seminars in occupational hygiene 2 874
Academic organisation: School of Health Systems and Public Health
Prerequisite: Satisfactory progress with submissions of OHS 873 assignments (Unit Standards 1–9)
Contact time: 1 eight-hour contact session per month that includes group discussions and case studies. Practical work forms part of assignments. Assignments need to be submitted one month after the contact session.
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module extent:
Introduction to laboratory practice, occupational health education, research and statistical methods, integrated management systems, quality systems, audits and occupational hygiene management. Problem-based assignments and practical work need to be completed and submitted after each unit standard.

OHS 875 Individual studies in occupational hygiene 875
Academic organisation: School of Health Systems and Public Health
Prerequisite: FLG 322 or equivalent occupational hygiene coursework with two years' practical experience, satisfactory progress in OHS 873.
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
In-depth knowledge and competency in occupational hygiene measuring and surveying techniques concerning legislative requirements related to different occupational hygiene strategies and stressors, i.e. risk assessment, occupational stress, illumination, extreme thermal conditions, noise, airborne contaminants, ventilation and ergonomics. Students need to compile template reports and submit it for grading. Students must also complete practical coursework in the air quality laboratory or at an approved inspection occupational hygiene laboratory to obtain competency in occupational hygiene equipment, calculations and interpretation of occupational hygiene survey results. Students will have to take a competency test after completing all practical coursework

OHT 770 Principles of occupational hygiene and toxicology 770
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

OHT 870 Principles: Occupational hygiene and toxicology 870
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

OKG 700 Oncological behavioural science 700
Academic organisation: Radiography
Contact time: 1 dpw 1 ppw 1 spw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

ONK 700 Otorhinolaryngology 700
Academic organisation: Otorhinolaryngology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 24

ONK 800 Otorhinolaryngology 800
Academic organisation: Otorhinolaryngology
Prerequisites: ANP 870, ANA 875, FSG 801, BVC 807
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

ONK 890 Dissertation: Otorhinolaryngology 890
Academic organisation: Otorhinolaryngology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 240

ONK 900 Otorhinolaryngology 900
Academic organisation: Otorhinolaryngology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

ONK 990 Thesis: Otorhinolaryngology 990
Academic organisation: Otorhinolaryngology
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

ONO 800 Communicable and non-communicable health-related conditions 800
Academic organisation: Public Health Medicine
Period of presentation: Year
Language of tuition: English **Credits:** 70

ORD 171 Orthodontics 171
Academic organisation: Orthodontics
Contact time: 1 ppw

Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 9
Module content:
This module will empower the oral hygiene student to recognise and refer limited developmental and structural abnormalities of the growing and mature dento-craniofacial structures. It will furthermore provide the student with the knowledge and skills to perform orthodontic procedures pertaining to the scope of oral hygiene. This module will comprise lectures only.

ORD 271 Orthodontics 271
Academic organisation: Orthodontics
Contact time: 1 p (2 h) (30 weeks)
Period of presentation: Year
Language of tuition: English **Credits:** 6
Module content:
This module will empower the oral hygiene student to recognise and refer limited developmental and structural abnormalities of the growing and mature dento-cranofacial structures. It will furthermore provide the student with the knowledge and skills to perform orthodontic procedures pertaining to the scope of oral hygiene. The module consists of lectures and clinical work.

ORD 370 Orthodontics 370
Academic organisation: Orthodontics
Contact time: 1 spw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:
- Basic principles and therapeutic measures.
- Occlusion: development and morphology.
- Development and growth: cranium.
- Stainless steel: properties and uses.
- Orthodontic devices: requirements and types.
- Changes in tissue.
- Malocclusion: classification and aetiology.
- Examination, aids, diagnosis and planning.
- Bad habits.
- Preventive and interceptive orthodontics.
- Treatment: principles, problems with space, methods.
- The role of extraction.
- Retention.

ORD 372 Orthodontics 372
Academic organisation: Orthodontics
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw (15 weeks) 2 p (2 h) (30 weeks)
Period of presentation: Year (elective)
Language of tuition: English **Credits:** 22
Module content:
This module is chosen as an elective and planned around orthodontics as a main field of study. This module will include:

- Cephalometric analysis
- Different fixed orthodontic techniques
- Orthodontic procedures pertaining to the scope of oral hygiene
- Presentation of seminars.

ORD 470 Orthodontics 470
Academic organisation: Orthodontics
Contact time: 1 lpw 1 dpw 1 ppw 1 other per week
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 21
Module content:
The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:
- Basic principles and therapeutic measures.
- Occlusion: development and morphology.
- Development and growth: cranium.
- Stainless steel: properties and uses.
- Orthodontic devices: requirements and types.
- Changes in tissue.
- Malocclusion: classification and aetiology.
- Examination, aids, diagnosis and planning.
- Bad habits.
- Preventive and interceptive orthodontics.
- Treatment: principles, problems with space, methods.
- The role of extraction.
- Retention.

ORD 570 Orthodontics 570
Academic organisation: Orthodontics
Contact time: 1 other per week 1 lpw 1 ppw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 22
Module content:
The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:
- Basic principles and therapeutic measures.
- Occlusion: development and morphology.
- Development and growth: cranium.
- Stainless steel: properties and uses.
- Orthodontic devices: requirements and types.
- Changes in tissue.
- Malocclusion: classification and aetiology.
- Examination, aids, diagnosis and planning.
- Bad habits.
- Preventive and interceptive orthodontics.
- Treatment: principles, problems with space, methods.
- The role of extraction.
- Retention.

ORD 700 Orthodontics 700
Academic organisation: Orthodontics
Contact time: 10 dpw

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

ORD 701 Orthodontics 701
Academic organisation: Orthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

ORD 800 Orthodontics 800
Academic organisation: Orthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

ORD 803 Orthodontics 803
Academic organisation: Orthodontics
Contact time: 20dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 464

ORD 890 Dissertation: Orthodontics 890
Academic organisation: Orthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

ORD 990 Thesis: Orthodontics 990
Academic organisation: Orthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

ORT 800 Orthopaedics 800
Academic organisation: Orthopaedics
Prerequisites: ANA 895, FSG 801, ANP 879, BVC 802
Contact time: 5 ppw 5 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

ORT 802 Orthopaedics 802
Academic organisation: Physiotherapy
Contact time: 5 spw 5 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

ORT 900 Orthopaedics 900
Academic organisation: Orthopaedics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

ORT 990 Thesis: Orthopaedics 990
Academic organisation: Orthopaedics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

OVG 700 Comprehensive medicine 700
Academic organisation: Health Sciences Dean's Office
Period of presentation: Year
Language of tuition: English **Credits:** 24

PAG 801 Pathology 801
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 802 Pathology 802
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 804 Pathology 804
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 805 Pathology 805
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 806 Pathology 806
Academic organisation: Anatomical Pathology
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 808 Pathology 808
Academic organisation: Anatomical Pathology
Contact time: 1 dpw 2 other per week
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

PAG 880 Pathology 880
Academic organisation: Anatomical Pathology
Contact time: 1 ppw 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

PAG 900 Pathology 900
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

PAG 990 Thesis: Pathology 990
Academic organisation: Anatomical Pathology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

PCM 870 Introduction to primary healthcare 870
Academic organisation: School of Health Systems and Public Health
Contact time: 3 dpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 5

PCR 800 Plastic surgery 800
Academic organisation: Surgery
Prerequisites: ANA 896, FSG 801, ANP 876, BVC 803
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

PCR 900 Plastic and reconstructive surgery 900
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

PCR 990 Thesis: Plastic and reconstructive surgery 990
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

PDD 700 Pedodontics 700
Academic organisation: Odontology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PDD 801 Pedodontics 801
Academic organisation: Odontology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PDD 871 Pedodontics 871
Academic organisation: Odontology
Contact time: 2 dpw 2 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PDI 700 Implantology 700
Academic organisation: Prosthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PDL 171 Periodontology 171
Academic organisation: Periodontics and Oral Medicine
Contact time: 2 lpw 1 ppw
Period of presentation: Semester 2

Language of tuition: Double medium **Credits:** 12
Module content:
This module will provide the oral hygiene student with knowledge of the:
- Macro and microscopic features of the periodontium
- Function of the periodontium
- Assessment and diagnosis of periodontal diseases
- Determine risk factors of periodontal diseases

PDL 271 Periodontology 271
Academic organisation: Periodontics and Oral Medicine
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 1 lpw 16 weeks, 1 p (2 h) 30 weeks
Period of presentation: Year
Language of tuition: Double medium **Credits:** 11
Module content:
This module is a continuation of (PDL 171) Periodontology 171 and will provide the oral hygiene student with knowledge of:
- Periodontal diseases
- Pathogenesis of periodontal diseases
- Implantology
- Surgical procedures

The module will also enable the oral hygiene student to:
- compile, exercise and evaluate a comprehensive and effective preventive, therapeutic and maintenance plan for the periodontal patient; and
- actively participate in the prevention, treatment and maintenance of periodontal conditions.

PDL 370 Periodontology 370
Academic organisation: Periodontics and Oral Medicine
Prerequisite: BOK 280, BOK 281 or (BOK 285,287), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 8
Module content:
(i) The modules in the subject are offered in the third, fourth and fifth years of study.
(ii) The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
(iii) The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium.
- The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification.
- The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan.
- The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planing; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of

periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases.
- The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

PDL 372 Periodontology 372
Academic organisation: Periodontics and Oral Medicine
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw (15 weeks), 2 ppw (2h) (30 weeks)
Period of presentation: Year (elective)
Language of tuition: Both Afr and Eng **Credits:** 22
Module content:
This module is chosen as an elective around the field of periodontics as main field of study. The module will provide the oral hygiene student with an in-depth overview of the current status of periodontics with the emphasis on the clinical application, understanding and role of the oral hygienist as part of the team.The purpose is to train the oral hygiene student to be competent in applying his/her expertise and knowledge in the prevention and treatment of periodontal diseases.

PDL 470 Periodontology 470
Academic organisation: Periodontics and Oral Medicine
Prerequisite: GNK 388,MDB 370,TGG 370,FSG 370,FAR 370,RAD 370, TBW 370,ODO 370,PDL 370,DFA 370
Contact time: 1 dpw 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 8
Module content:
(i) The modules in the subject are offered in the third, fourth and fifth years of study.
(ii) The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
(iii) The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium. The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification. The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan. The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planing; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases. The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

PDL 570 Periodontology 570
Academic organisation: Periodontics and Oral Medicine
Prerequisite: TBW 470,ODO 470,MFP 470,PDL 470,DFA 470,OFC 470,PTK 470, GAP 470,TMZ 470
Contact time: 1 ppw 3 dpw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 16
Module content:
(i) The modules in the subject are offered in the third, fourth and fifth years of study.
(ii) The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
(iii) The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium. The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification. The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan. The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planing; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases. The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

PDL 700 Periodontology 700
Academic organisation: Periodontics and Oral Medicine
Contact time: 20 ppw 4 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PGP 800 Psychopathology 800
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 28
Module content:
An in-depth study of the psychopathology diseases applicable to psychiatry.

PHA 770 Assignment in public health 770
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 30

PHM 770 Learning in public health 770
Academic organisation: School of Health Systems and Public Health
Contact time: 50 hours per week

Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
Special introduction to fundamentals in Executive Leadership in health.
The emerging student will be taught the fundamentals in executive leadership in healthcare systems which will form the basic platform or foundation for understanding the challenges for application of leadership modalities at the different levels of healthcare service delivery in the public health service and how to begin to think and analyse how the principles of executive leadership at their level of appointment can improve health service delivery.

PHM 771 Diploma examination: Occupational health (Part 1) 771
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 0

PHM 772 Diploma examination: Occupational health (Part 2) 772
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 0

PHM 870 Learning in public health 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 dpw 1 ppw 1 other per week 1 spw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
This is the first (one-week) module at the beginning of the year focusing on learning. At the end of this week, you will have a much better understanding of what you actually want to achieve in public health and what you need to learn to get there. You will probably also have changed your views on learning: from individual surface learning and memorization, to valuing deep learning often in a group context. Finally, you will have achieved the ability to use the ever-increasing knowledge in health, philosophy, and ethics that are generated on the internet to your own best advantage.

PHM 871 Public health examination Part 1 871
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 0

PHM 872 Public health examination Part 2 872
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 0

PHR 870 MPH Mini-dissertation 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: TNM 800
Period of presentation: Year
Language of tuition: English **Credits:** 60

PHT 801 Physiotherapy 801
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 802 Physiotherapy 802
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 803 Physiotherapy 803
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 804 Physiotherapy 804
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 805 Physiotherapy 805
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 806 Physiotherapy 806
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PHT 807 Physiotherapy 807
Academic organisation: Physiotherapy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

PMG 801 Periodontics and oral medicine 801
Academic organisation: Periodontics and Oral Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PMG 802 Periodontics and oral medicine 802
Academic organisation: Periodontics and Oral Medicine
Contact time: 2 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PMG 803 Periodontics and oral medicine 803
Academic organisation: Periodontics and Oral Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PMG 890 Dissertation: Periodontology and oral medicine 890
Academic organisation: Periodontics and Oral Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

POH 170 Public oral health 170
Academic organisation: Community Dentistry
Contact time: 1 lpw 1 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 5
Module content:
- Principles of public oral health.
- Determinants of health.
- Definitions of health, disease and illness.
- Public health approaches to prevention.

POH 270 Public oral health 270 (*offered as from 2015*)
Academic organisation: Community Dentistry
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 12
Module content:
- Orientation to health sciences research.
- Ethical consideration in the conduct of health sciences research.
- An overview of the research process.
- Selecting or identifying research problems.
- The literature review.
- Refining and defining the research question, formulating a hypothesis and preparing a research proposal.
- Quantitative research.
- Non-traditional and qualitative research designs.
- Sampling.
- Data collection and data quality.
- Data analysis.
- Research reports and report evaluation.

POH 370 Public oral health 370 (*offered as from 2016*)
Academic organisation: Community Dentistry
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 4
Module content:
- Oral epidemiology.
- Prevention and oral health promotion.
- Health services (systems).

POH 371 Public oral health 371
Academic organisation: Community Dentistry
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw (15 weeks) 2 p (2 h) (30 weeks)
Period of presentation: Year (elective)

Language of tuition: Both Afr and Eng **Credits:** 22
Module content:
This module is chosen as an elective to further studies in the field of community dentistry. This module will provide the oral hygiene student with a deeper understanding and skills in the fields of preventive dentistry, oral epidemiology, and administration and management. This will enable him/her to develop and manage a needs-related preventive programme for the individual high-risk patient and also for a specific community or population. Students will be expected to submit a mini-research report demonstrating their understanding and skills in the field of public oral health. The main subject consists of four syllabus themes, namely:
- Preventive dentistry
- Oral epidemiology
- Project management
- Mini-research report.

POH 470 Public oral health 470 (*offered as from 2017*)
Academic organisation: Community Dentistry
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 6
Module content:
- Oral epidemiology.
- Prevention and oral health promotion.
- Health services (systems).
- Community engagement projects commence.

POH 570 Public oral health 570 (*offered as from 2018*)
Academic organisation: Community Dentistry
Contact time: 1 practical session per semester
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
Community engagement projects continue.

POK 700 Sports science 700
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

POK 800 Sports science 800
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

POK 890 Dissertation: Sports science 890
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

POK 900 Sports science 900
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

POK 990 Thesis: Sports science 990
Academic organisation: Centre for Sports Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

POL 251 Professional development and leadership 251
Academic organisation: Physiotherapy
Prerequisite: PHY 131, CMY 151, FSG 161, FSG 162, SLK 110, FTP 100, ANA 152, SLK 120, ANA 162
Contact time: 1 web-based period per week 1 lpw 2 ppw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Ethics in physiotherapy practice. Counselling skills. Group dynamics. Interviews with patients. Health team. Evidence-based practice. Understanding disability. Using the international classification. Preventing sexual harassment. Assessing a patient. Working with an interpreter/translator. Motivation. Training feedback.

POL 300 Professional development and leadership 300
Academic organisation: Physiotherapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 231, FTP 241, POL 251
Contact time: 1 ppw 1 lpw 1 web-based period per week 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 13
Module content:
Evidence-based practice, ethics in physiotherapy practice, counselling skills, group dynamics, management of human behaviour, medico-legal documentation. Introduction to marketing, information management, principles of research in physiotherapy, single subject design. Problem-solving in a variety of health and healthcare situations.

POL 400 Professional development and leadership 400
Academic organisation: Physiotherapy
Prerequisite: MRZ 310, RHC 451, RHC 452, FAR 381, FAR 382, FTP 300, FTP 301, POL 300
Contact time: 2 ppw 1 web-based period per week 1 lpw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 19
Module content:
Theoretical and practical handling of marketing, management models, financial management, presentation of a scientific paper, diversity in the workplace, continuing professional development, quality assurance, management human behaviour, private practice management, labour relations.
Examination period: October/November.

PPS 770 Policy practice seminar 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
The fundamentals of health policy practice implementation will be discussed and methods

of analysis will be linked to how the best effective health policy processes can be structured to respond to the health needs. The policy chain from inception to implementation will be analysed to establish why SA health policies, which are rated as very good, never gets implemented and where they are implemented, the results are less than optimal. How can policy practice assist executive leaders in health to work smarter, with less resources and achieve greater results for effective service delivery. The role of the community in the policy development and practice process will analysed to see what lessons can be learned to cut down on bureaucracy and red tape.

PRD 270 Prosthodontics 270
Academic organisation: Prosthodontics
Contact time: 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 3
Module content:
- Basic tooth morphology.
- Introduction to dental laboratory procedures in removable prosthodontics.

PRD 370 Prosthodontics 370
Academic organisation: Prosthodontics
Prerequisite: BOK 280,BOK 281,BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281
Contact time: 2 dpw 3 ppw 3 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 41
Module content:
Examination and evaluation of the denture patient, principles and taking of impressions, determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus.

PRD 470 Prosthodontics 470
Academic organisation: Prosthodontics
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, RAD 370, TBW 370, ODO 370, PDL 370, GPS 370, ORD 370, OFC 370, PRD 370
Contact time: 1 lpw 2 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 26
Module content:
Examination and evaluation of the denture patient, principles and taking of impressions, determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus.

PRD 570 Prosthodontics 570
Academic organisation: Prosthodontics
Prerequisite: TBW 470, ODO 470, MFP 470 PDL 470, DFA 470, OFC 470, PRD 470, GAP 470, TMZ 470
Contact time: 1 dpw 2 lpw 4 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 31
Module content:
Examination and evaluation of the denture patient, principles and taking of impressions,

determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus.

PRD 701 Prosthodontics 701
Academic organisation: Prosthodontics
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PRD 801 Prosthodontics 801
Academic organisation: Prosthodontics
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PRD 802 Prosthodontics 802
Academic organisation: Prosthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PRD 803 Prosthodontics 803
Academic organisation: Prosthodontics
Contact time: 1 spw 2 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PRD 890 Dissertation: Prosthodontics 890
Academic organisation: Prosthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

PRD 990 Thesis: Prosthodontics 990 (new)
Academic organisation: Prosthodontics
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

PRN 701 Periodontics 701
Academic organisation: Periodontics and Oral Medicine
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PRS 461 Practice management 461
Academic organisation: Human Nutrition
Prerequisite: Fourth-year status
Contact time: 1 lpw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 5
Module content:
Administration and finances (personal and business).

PRS 700 Practice management 700
Academic organisation: Community Dentistry
Contact time: 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

PRS 701 Practice management 701
Academic organisation: Dental Management Sciences
Prerequisite: A minimum of one year practice experience
Contact time: 10 lectures of 90 mins each
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 90
Module content:
The diploma will enable the postgraduate student to become competent in the area of practice management by developing an understanding of business skills. The student must demonstrate the ability to analyse and interpret practice-related management problems.

PRS 800 Practice management 800
Academic organisation: Community Dentistry
Contact time: 2 spw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

PSB 371 Patients with special needs 371
Academic organisation: Community Dentistry
Prerequisites: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 2 lpw for 30 weeks 1 seminar for 3 hours
Period of presentation: Year
Language of tuition: Double medium **Credits:** 12
Module content:
Patients with special needs pose unique challenges, especially in relation to the need for an inventive and carefully planned approach suited to each individual's needs. This module will therefore equip the oral hygiene student to manage patients in this regard. The focus is on adapting and modifying the approach and management of the patient according to the specific need for instance pregnancy, physical and mental disabilities, medical conditions and age.

PSI 800 Psychiatry 800
Academic organisation: Psychiatry
Prerequisites: ANA 804, FSG 801, ANP 872, MTS 801, NRE 801
Contact time: 1 spw
Period of presentation: Year
Language of tuition: English **Credits:** 300

PSI 802 Psychiatry 802
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 24

PSI 900 Psychiatry 900
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 1

PSI 990 Thesis: Psychiatry 990
Academic organisation: Psychiatry
Period of presentation: Year
Language of tuition: English **Credits:** 480

PTK 700 Prosthetics 700
Academic organisation: Prosthodontics
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 100

PTK 890 Dissertation: Prosthetics 890
Academic organisation: Prosthodontics
Period of presentation: Year
Language of tuition: English **Credits:** 240

QHR 870 Qualitative research methods 870
Academic organisation: School of Health Systems and Public Health
Period of presentation: Year
Language of tuition: English **Credits:** 10

QIM 771 Implementation of quality improvement modalities (strategies) in the health system 771
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Participants will be required to identify the current quality challenges at their place of work and develop an advanced quality improvement strategic plan which they can implement. The plan must respond to the recent audit of facilities conducted by the Department of Health. Participants will be required upon returning to their place of work to implement the plan and after 6 months report on the results and what improvements had occurred as a result of their plans. The key factors to be addressed include waiting times, availability of medication, cleanliness of facilities, the long queues and patient satisfaction. Participants will be taught quality improvement strategies related to executive leadership, learning and organisational change.

RAD 271 Radiography 271
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 1 lpw (30 weeks) 2 p (2 h) (30 weeks)
Period of presentation: Year
Language of tuition: Double medium **Credits:** 20
Module content:
The oral hygiene student must be competent to produce a variety of intra and extra-oral

radiographs of good diagnostic quality. He/she must also recognise relevant anatomical landmarks on a radiograph and distinguish between normal and abnormal appearances. He/she must at all times be conscious of possible deleterious effects of radiation on biological systems.

RAD 370 Diagnostic imaging 370
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: BOK 280, BOK 281 or (BOK 285,287), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 2 ppw 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 8

RAD 371 Radiography 371
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw (30 weeks) 2 p (2 h) (30 weeks)
Period of presentation: Year
Language of instruction: Double medium **Credits:** 20
Module content:
This module is aimed at providing the oral hygiene student with the necessary skills, attitude and relevant knowledge by studying the following aspects in radiation physics relevant to dentistry:
- Electromagnetic waves – their properties and behaviour
- X-rays – their specific properties, sources of X-rays and production of X-rays
- Construction of the X-ray tube
- Accurate image formation
- Interaction of photons with living tissues
- Radiation biology
- Radiation protection
- ALARA principle
- Quality control measures.

This module furthermore entails practical work in the Radiology section.

RAD 470 Diagnostic imaging 470
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, GPS 370, TBW 370, ODO 370, PDL 370, ORD 370, OFC 370, PTK 370, RAD 370
Contact time: 1 ppw 28 weeks 1 dpw 6 weeks
Period of presentation: Year
Language of tuition: English **Credits:** 13

RAD 570 Diagnostic imaging 570
Academic organisation: Oral Pathology and Oral Biology
Prerequisites: TBW 470, ODO 470, MFP 470, PDL 470, ORD 470, OFC 470, PTK 470, GAP 470, TMZ 470, RAD 470
Contact time: 1 ppw 14 weeks 1 dpw 3 weeks
Period of presentation: Semester 1
Language of tuition: English **Credits:** 8

RAD 700 Radiography 700
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw or 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 90
Module content:
Advanced dental radiography.

RAD 710 Introductory radiography 710
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

RAD 800 Radiography 800
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

RAD 801 Radiography 801
Academic organisation: Oral Pathology and Oral Biology
Period of presentation:
Language of tuition: Both Afr and Eng **Credits:** 180

RAD 870 Radiology 870
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 spw 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

RAD 890 Dissertation: Radiography 890
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Afrikaans or English **Credits:** 240

RAD 895 Essay: Radiography 895
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Afrikaans or English **Credits:** 120

RAD 900 Radiography 900
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

RAD 990 Thesis: Radiography 990
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

RAN 100 Radiographic anatomy 100
Academic organisation: Anatomy
Contact time: 1 ppw 2 lpw

Period of presentation: Year
Language of tuition: English **Credits:** 20
Module content:
General introduction to anatomy: Anatomical terminology, surface and regional anatomy, histology of basic tissues; ossification, healing and repair.
Introduction to osteology.
Regional anatomy I: Thoracic skeleton and thoracic soft tissues; osteology; joints and soft tissues of the extremities; osteology and joints of the vertebral column; abdominal surface anatomy; osteology and soft tissue of the pelvis. Skull I: Cranium and facial bones.
Radiographic anatomy I: Regional radiographic anatomy, with emphasis on the skeletal components.

RAN 280 Radiographic anatomy 280
Academic organisation: Anatomy
Prerequisite: RFI 110, MTL 180, RAN 100, FSG 161, FSG 162, RAW 182, RAW 180
Contact time: 1 dpw 1 other per week 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 10
Module content:
Systemic anatomy I: Digestive and urogenital systems.
Sensory organs: Skin; eye; ear; nose; tongue.
Skull II: Advanced osteology; base of cranium; openings and sinuses.
Radiographic anatomy II: Systemic anatomy with emphasis on soft tissue components.

RAN 380 Radiographic anatomy 380
Academic organisation: Anatomy
Prerequisite: RFI 210, RFI 211, RAN 280, FSG 251, FSG 252, FSG 262
Contact time: 1 dpw 2 lpw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
Systemic anatomy II: Female reproductive system and breast; Cardiovascular system; Cerebrospinal fluid system. Introduction to neuroanatomy.
Regional cross-sectional anatomy: Cranium, brain; thorax; abdomen; pelvis and limbs.
Radiographic anatomy III: Systemic and cross-sectional anatomy with emphasis on three-dimensional reconstruction.

RAN 700 Radiographic anatomy 700
Academic organisation: Anatomy
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20

RAW 180 Radiography 180
Academic organisation: Radiography
Contact time: 1 spw 4 dpw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 50
Module content:
(a) Introduction to radiography. Concepts of ethics, profession and professionalism. Professional standards in radiography. Communication skills: interpersonal and scientific. Radiation protection concepts and equipment. Principles of infection control. Radiographic procedures and positioning principles. Care of the patient. Pathological condition. Related imaging modalities.

(b) Patients with special problems. Handling of paediatric patients and geriatric patients.
(c) Radiographic examinations: thorax, abdomen, extremities, hip, pelvis, spine and skull. Theoretical and practical instruction is used to integrate basic sciences and clinical radiography. Procedural considerations and positioning techniques. Selection of technique factors. Radiation protection. Pathological conditions and film evaluation. Problem-solving. Execution of radiographic examinations and procedures. Trauma.

RAW 182 Radiographic imaging 182
Academic organisation: Radiography
Contact time: 1 lpw 1 spw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Introduction: Discovery of X-rays, processing principles, handling of x-ray equipment. X-beam: production of X-rays, attenuation.
Properties of the radiographic image: visibility and geometric properties.
Image formation: interaction between X-rays and the human body and subject contrast.
Primary exposure factors: mAs, kVp and SID. AEC. Principles of technique charts. Image recording: darkrooms, cassettes, intensifying screens, efficiency of rare earth intensifying screens and X-ray film construction.
Control of scatter radiation: production of scatter, effect of scattered radiation on the image, beam restriction devices, grids and grid efficiency.
Geometry: focal spot size, SID, OID, X-ray beam/body part/film alignment, influence of distances and other variables on the geometric properties of the image. Introduction to digital radiography.

RAW 280 Radiography 280
Academic organisation: Radiography
Prerequisite: RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180
Contact time: 3 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 54
Module content:
Skeletal system: Procedures and techniques for: positioning, patient care, selection of technique factors, radiation protection, pathological conditions and film evaluation. Problem-solving. Execution of radiographic examinations and procedures. Trauma. Alternative imaging and film principles and procedures. Apparatus. Radiation protection.
Radiographic procedures: Execution of radiographic examinations and procedures, selection of technique factors, radiation protection, problem-solving, pathological conditions and film evaluation for neonatal and mobile unit procedures. Orthopaedic theatre procedures. Soft tissue contrast media examinations. Applied nursing sciences.
Research principles. Practical implementation: Compilation of a portfolio. Theoretical and practical tuition are used to integrate science and clinical radiography.

RAW 282 Radiographic imaging 282
Academic organisation: Radiography
Prerequisite: RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180
Contact time: 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 20
Module content:
Film evaluation.

Application of technique factors, compiling of technique charts.
Films, film technology, image formation and sensitometric properties.
Processing, monitoring the processor and processing area.
Darkroom and design, chemicals.
Quality assurance tests.
Digital radiography: image formation and processing.

RAW 284 Radiation therapy and nuclear medicine 284
Academic organisation: Radiography
Prerequisite: RAN 100,RFI 110,FSG 161,FSG 162,RAW 180,RAW 182,MTL 180
Contact time: 1 lpw 1 dpw
Period of presentation: Quarter 4
Language of tuition: Double medium **Credits:** 10
Module content:
(a) Radiobiology: Cell survival curves and target theories, radiation effects on tissue, tissue and organ radio sensitivity. Radiation pathology, acute and chronic effects, late effects of radiation. Clinical radiobiology: Radiation therapy, tumour radiobiology, fractionation, iso-effect formulae.
(b) Introduction to radiation therapy: Origin and incidence of cancer, diagnoses and staging, treatment and modalities. Treatment methods in radiation therapy. Preparation for external beam irradiation. Dosage. Biological principles of radiation. Effects of radiation on normal tissue.
(c) Introduction to nuclear medicine: Principles of nuclear physics and nuclear medicine, nuclear instrumentation, radio chemical pharmacology. Basic approach to clinical nuclear medicine and relevant techniques.

RAW 380 Radiography 380
Academic organisation: Radiography
Prerequisite: FSG 251, FSG 252, FSG 262 ,GNK 286, RAN 280, RAW 281,RAW 282, RAW 283, RBG 281, RFI 210
Contact time: 4 dpw 1 spw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 52
Module content:
Cardiovascular system: Imaging equipment: laser imager and dry film imager, construction, operation and films. Digital subtraction and image manipulation, viewing, recording and storing of images. Principles and equipment considerations for cardioangiography and angiography. Selective angiography. Intervention techniques (vascular and non-vascular). Venography. Seldinger technique, contrast media, medication, catheters, guide wires and accessories. Quality assurance and quality control. Patient care. Medico-legal aspects. Research. Case presentations. Pattern recognition. Clinical experience and evaluation.
Clinical evaluation of an excretory urogram that was done theoretically in the 2nd year.
Mammography: Introduction. Principles of soft tissue radiography. Communication and health promotion. Medico-legal aspects. Management of breast disease, patient care and treatment options. Mammography equipment, radiation safety and technique factors. Image receptors. Processing requirements. Positioning principles and special procedures. Systematic evaluation of the images. Different modalities or equipment to demonstrate the breast. Quality assurance and quality control. Case presentation. Research. Pattern recognition. Clinical experience and evaluation.
Hysterosalpingography: Booking procedures, patient-radiographer relationship, procedural considerations and evaluation criteria. Pattern recognition.

Bone densitometry: Principles, bone biology and remodelling, osteoporosis, core competencies for radiographers, physical principles of dual X-ray absorptiometry and other bone densitometry techniques. Clinical experience.
Ultrasound: General principles. Clinical experience. Computer tomography: Imaging principles – conventional and spiral. Factors affecting image quality. Contrast media. Protocol for different examinations. Patient care. Case presentation. Research. Pattern recognition. Clinical experience and evaluation. Magnetic resonance imaging: Imaging principles and image characteristics. Contrast media. Protocol for the different examinations. Patient care. Clinical experience. Myelography.
Research project.
Clinical evaluation and film evaluation of examinations that were done theoretically in the first and second year.

RAW 382 Radiography practice 382
Academic organisation: Radiography
Contact time: 1 lpw 2 dpw 1 spw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30
Module content:
Ethics. Law as applied to radiography. Healthcare. Healthcare delivery. Systems. Health policy (national and international).
Planning of health facilities and services.
General management principles as applied to a radiography department. Purchase specifications processors and basic x-ray equipment. Comparison for clinical use. Accepting criteria.
Radiation safety: Simplifying and standardizing technique. Radiation protection and control (personnel and patients).
Quality assurance: Introduction. Quality patient care and assessment. Reject film analysis and research report. Quality control tests and corrective action. Film evaluation.

RAW 780 Quality assurance 780
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 30

RAW 781 Image interpretation 781
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 30

RAW 782 Computer tomography 782
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 30

RAW 783 Magnetic resonance 783
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 30

RAW 784 Intervention 784
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 30

RBA 700 Reproductive biology: Andrology 700
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 96

RBA 800 Reproductive biology: Andrology 800
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 1

RBA 890 Dissertation: Reproductive biology: Andrology 890
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 240

RBA 900 Reproductive biology: Andrology 900
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 1

RBA 990 Thesis: Reproductive biology: Andrology 990
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 480

RBG 770 Radiobiology 770
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

RBG 800 Radiobiology 800
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

RBG 801 Radiobiology 801
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

RBG 890 Dissertation: Radiobiology 890
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

RBI 700 Reproductive biology 700
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

RBI 800 Reproductive biology 800
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

RBI 890 Dissertation: Reproductive biology 890
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

RBI 900 Reproductive biology 900
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

RBI 990 Thesis: Reproductive biology 990
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

RCF 700 Radiochemistry and pharmacology 700
Academic organisation: Radiography
Contact time: 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 25

RCF 800 Radiobiology, chemistry and pharmacology 800
Academic organisation: Nuclear Medicine
Contact time: 2 lpw 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

RCH 310 Research project 310
Academic organisation: Human Nutrition
Prerequisite: Third-year status
Contact time: 1 dpw 2 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 20
Module content:
Research methods and process.

RCH 320 Research project 320
Academic organisation: Human Nutrition
Prerequisite: RCH 310
Contact time: 1 dpw 1 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 10

Module content:
Literature study, protocol and statistics (1 l + 1 x 2h discussion).
Preparation of protocol and submission thereof for approval (1 x 2h disussion).

RCH 371 Research 371
Academic organisation: Community Dentistry
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 10 lectures x 90 min.
Period of presentation: Year
Language of instruction: Double medium **Credits:** 5
Module content:
This module will assist the oral hygiene students to become competent in the area of research by becoming active consumers of research to improve their practice and also taking part in research in the area of oral health. The student must demonstrate the ability to take part in an oral health research project under the guidance of an experienced researcher and report on aspects of the research project such as the type of research, the elements of a scientific research methodology, the data collection and the statistical method(s) used in the project and the results.

RCH 410 Research project 410
Academic organisation: Human Nutrition
Prerequisite: RCH 320
Contact time: 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 7
Module content:
Execution and reporting.

RCH 480 Research project 480
Academic organisation: Human Nutrition
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 6

RDB 700 Radiotherapeutic dosage planning 700
Academic organisation: Radiography
Contact time: 1 lpw 1 ppw 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 40

RDD 800 Radiological diagnostics 800
Academic organisation: Radiology
Prerequisites: ANP 807, ANA 808, FSG 801, MFK 800
Contact time: 5 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

RDD 900 Radiological diagnostics 900
Academic organisation: Radiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

RDD 990 Thesis: Radiological diagnostics 990
Academic organisation: Radiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

RDF 700 Nuclear Medicine 700
Academic organisation: Radiography
Contact time: 1 dpw 1 spw 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

RDT 900 Radiological therapy 900
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

RDT 990 Thesis: Radiological therapy 990
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

RGT 801 Radiation therapy 801
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

RHC 480 Research in healthcare sciences 480
Academic organisation: Physiotherapy
Contact time: 1 other per week 2 web-based periods per week 3 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 16
Module content:
Research in healthcare sciences. The outcomes of this module are:
- Understanding the importance of evidence-based clinical practice.
- Understanding the research process and general approaches to research.
- Knowledge of the methodologies commonly used in healthcare sciences.
- Reading and critiquing published research.
- Writing a literature review.
- Understanding and respecting research ethics and the criteria for good quality research.

RLE 710 Ethics and jurisprudence 710
Academic organisation: Dental Management Sciences
Prerequisite: A minimum of one year practice experience
Contact time: Contact hours as determined by the Head of Department
Period of presentation: Semester 1
Language of tuition: Both English and Afrikaans **Credits:** 30
Module content:
To be a good healthcare practitioner requires a life-long commitment to sound professional and ethical practices and an overriding dedication to the interests of one's fellow human beings and society. The term "profession" means "a dedication, promise or commitment publicly made". Practice as a healthcare professional is based on a

relationship of mutual trust between patients and healthcare practitioners. In the course of their professional work, healthcare practitioners are required to subscribe to certain rules of conduct. To this end the Health Professions Council of South Africa (HPCSA) has formulated a set of rules regarding professional conduct against which complaints of professional misconduct will be evaluated. These rules are presented in the basic subject Ethics and jurisprudence.

RPD 200 Research and professional development 200
Academic organisation: Occupational Therapy
Prerequisite: ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, AKU 100, ART 100, MTL 180, GNK 286
Contact time: 2 ppw 1 dpw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 10
Module content:
The study of the research process and the introduction to occupational therapy professional ethics and management.

RPD 380 Research and professional development 380
Academic organisation: Occupational Therapy
Prerequisite: FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283
Contact time: 4 dpw 5 lpw
Period of presentation: Quarter 3
Language of tuition: Double medium **Credits:** 20
Module content:
Development, submission and approval of an occupational therapy related research protocol. Continued study of occupational therapy professional ethics and management. Elective fieldwork to promote professional development.

RPD 481 Research and professional development 481
Academic organisation: Occupational Therapy
Prerequisite: ANP 210, RPD 380, SEP 110/ZUL 110, AKU 303, AKU 381, AKU 382, ART 381, ART 382, ELH 121, ELH 122, AIM 101
Contact time: 0.5 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 15
Module content:
Continued study of the process of research. Includes the implementation of the approved research protocol and the documentation and presentation of the completed research project.

RSD 890 Dissertation: Diagnostics 890
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

RSK 700 Essay 700
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

RSZ 700 Radiation therapy 700
Academic organisation: Radiography
Contact time: 2 dpw 1 lpw 1 ppw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 50

RSZ 701 Radiation therapy 701
Academic organisation: Radiography
Contact time: 2 dpw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 40

RSZ 890 Dissertation: Radiation therapy 890
Academic organisation: Radiography
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

SAN 880 Sports anatomy 880
Academic organisation: Anatomy
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

SBI 700 Cell biology 700
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 96

SBI 800 Cell biology 800
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

SBI 890 Dissertation: Cell biology 890
Academic organisation: Physiology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

SCC 871 Communication in health 871
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

SCM 770 Social determinants of health and primary healthcare 770
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
Primary Healthcare (PHC) approach: Philosophical basis and policy concept.
Health problem analysis.
Social and economic determinants of health.

Millennium Development Goals (MDG's) and health.
Elements of comprehensive primary healthcare.
Principles of the district health system.
Intersectoral collaboration in health development.
Community-oriented PHC.

SCM 771 Human resource management and industrial sociology 771
Academic organisation: School of Health Systems and Public Health
Contact time: 1 other per week 1 dpw 1 spw 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

SCM 870 Social determinants of health and primary healthcare 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 ppw 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

SCM 873 Quality of life 873
Academic organisation: School of Health Systems and Public Health
Contact time: 2 spw 1 ppw 8 lpw 2 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 5

SCP 870 Health promotion 870
Academic organisation: School of Health Systems and Public Health
Prerequisite: SCP 870
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

SCP 871 Sexual and reproductive health 871
Academic organisation: School of Health Systems and Public Health
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

SCP 872 Health promotion in practice 872
Academic organisation: School of Health Systems and Public Health
Prerequisite: SCP 870
Contact time: 16 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

SFI 700 Radiation physics and instrumentation for nuclear medicine 700
Academic organisation: Radiografie
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 20

SFM 770 Strategic financial management in health 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week

Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
The module will enable the participant to implement strategies which are practical and implementable in the workplace taking into consideration the complexities and challenges prudent and well thought through financial management strategies which not only addresses the current financial problems but provides for visionary thinking in its application towards a more equitable healthcare delivery system. The importance of adequate skills required for an efficient National Health Insurance will be the focus and participants will be required to develop strategic financial plans based on their workplace objectives so that practical solutions can be developed that is within budget and which are affordable.

SFR 700 Radiation physics and radiation protection 700
Academic organisation: Radiography
Contact time: 1 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 20

SGN 800 Sports medicine 800
Academic organisation: Orthopaedics
Contact time: 4 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

SGN 801 Sports medicine 801
Academic organisation: Physiotherapy
Contact time: 2 ppw 20 lpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

SGN 802 Sports medicine 802
Academic organisation: Orthopaedics
Contact time: 4 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 36

SGN 890 Dissertation: Sports medicine 890
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

SGN 894 Essay: Sports medicine (Preliminary work) 894
Academic organisation: Orthopaedics
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36

SGN 895 Essay: Sports medicine 895
Academic organisation: Orthopaedics
Period of presentation: Year
Language of tuition: Double medium **Credits:** 72

SGN 900 Sports medicine 900
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

SGN 990 Thesis: Sports medicine 990
Academic organisation: Anatomy
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

SMH 770 Strategic marketing (and communication) in health 770
Academic organisation: Public Health Medicine
Contact time: 50 hours per week
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
The module will enable the participant to create a messaging strategy that can be used in all marketing materials. To develop a marketing programme appropriate for the target audience using the most effective possibilities such as public relations, advertising, website (and other internet platforms), promotional seminars, conferences and trade booth opportunities, downloadable materials, direct marketing (offline & online), packaging, event sponsorships and merchandising promotions. The participant will be taught the skills to develop a communications programme that complements the marketing programme and provides timely and comprehensive internal, external and strategic communications initiatives in an integrated approach. One of the key issues will be the level of the health message and whether it makes an impact on the improvement of uptake of healthcare services.

SMO 120 Special study module 120
Academic organisation: Anatomy
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12

SMO 121 Special study module 121
Academic organisation: Anatomy
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 5

SMO 211 Special study module 211
Academic organisation: Physiology
Prerequisite: CMY 151, FIL 155, MGW 112, MLB 111, PHY 131, MTL 180, GNK 120, BOK 121, GNK 127, GNK 128
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5

SMO 281 Special study module 281
Academic organisation: Anatomical Pathology
Prerequisite: CMY 151, FIL 155, MGW 112, PHY 131, MTL 180, GNK 120, BOK 121, GNK 127, GNK 128, SMO 121
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 5

SMO 311 Special study module 311
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5

SMO 380 Special study module 380
Academic organisation: Surgery
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 5

SMO 382 Special study module 382
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 5

SMO 411 Special study module 411
Academic organisation: Obstetrics and Gynaecology
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 2

SMO 511 Special study module 511
Academic organisation: Psychiatry
Period of presentation: Semester 1
Language of tuition: English **Credits:** 2

SMO 512 Special study module 512
Academic organisation: Family Medicine
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 2

SOH 254 Systems of healthcare 254
Academic organisation: Nursing Science
Prerequisite: PHY 131, CMY 151, FSG 161, FSG 162, FTP 100, ANA 152, ANA 162
Contact time: 2 lpw 1 dpw
Period of presentation: Quarter 4
Language of tuition: English **Credits:** 10
Module content:
Healthcare sciences and the dimensions of healthcare.
Multidisciplinary and comprehensive healthcare delivery. Systems of healthcare delivery: local, national and international institutions and organisations in the healthcare sector. Local, national and international health policies. Demographical, biostatistical and epidemiological concepts, methods and tendencies in the planning of healthcare facilities and services. Contemporary issues in healthcare delivery and policy.

SOZ 700 Radiation oncology 700
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits: 96**

SOZ 800 Radiation oncology 800
Academic organisation: Radiation Oncology
Prerequisites: ANP 809, ANA 809, FSG 801, MFK 801, RBG 801

Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 300

SOZ 805 Radiation oncology 805
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

SOZ 890 Dissertation: Radiation oncology 890
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

SOZ 900 Radiation oncology 900
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

SOZ 990 Thesis: Radiation oncology 990
Academic organisation: Radiation Oncology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

TBW 171 Comprehensive patient management 171
Academic organisation: Dentistry General
Contact time: 1 ppw 1 other per week 1 dpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 2
Module content:
The purpose of this module is to:
- embed communication skills required during patient management; and
- facilitate an understanding of the patient's psycho-social dimensions that may influence health-related behaviour and customer demand.

TBW 271 Comprehensive patient management 271
Academic organisation: Dental Management Sciences
Prerequisite: ELH 121, ELH 122, AIM 101, ACO 171, ANA 171, FAR 171, FLG 171, GMB 171, MDB 171, ODO 171, ORD 171, PDL 171, TBW 171, VKM 171, NHS 171
Contact time: 1 lpw (14 weeks)
Period of presentation: Semester (promotion module)
Language of tuition: Double medium **Credits:** 3
Module content:
The purpose of this module is to:
- embed aspects related to occupational health and safety;
- embed communication skills required during patient management;
- develop presentation skills to address large audiences;
- facilitate an understanding of professionalism and ethical behaviour;
- embed knowledge about legal aspects that are related to dentistry;
- embed knowledge/skills in terms of administrative management and scheduling in a dental practice;
- embed psychological aspects pertaining to patient management;
- facilitate the management of a primary preventive treatment plan; and
- provide primary preventive treatment in cooperation with senior BChD students.

TBW 370 Comprehensive patient management 370
Academic organisation: Dental Management Sciences
Prerequisite: BOK 280, BOK 281, BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 1 ppw 1 lpw 1 other per week
Period of presentation: Year
Language of tuition: Double medium **Credits:** 10
Module content:
Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the "practice patient". The portfolio contains the student’s year mark, which is determined on a 50:50 basis with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.
Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and healthcare environment. Application of certain principles and skills in terms of:
- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the oral hygienist.
- Career possibilities.
- Managing a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

TBW 371 Comprehensive patient management 371
Academic organisation: Dental Management Sciences
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 1 lpw 2 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 3
Module content:
The purpose of this module is to:
- facilitate an understanding of technology management and maintenance;
- embed knowledge/skills in terms of administrative management and scheduling in a dental practice;
- facilitate an understanding of customer needs and demands;
- embed knowledge/skills regarding internal marketing in a dental practice;
- facilitate career management abilities;
- facilitate an understanding of an employee’s rights in terms of the labour law;
- facilitate an understanding of an oral hygienist’s role in the management of a dental practice;
- facilitate the management of a primary preventive treatment plan; and
- provide primary preventive treatment in cooperation with senior BChD students.

TBW 470 Comprehensive patient management 470
Academic organisation: Dental Management Sciences

Prerequisite: DFA 370, FAR 370, FSG 370, GNK 388, GPS 380, MDB 370, ODO 370, OFC 370, PDL 370, TBW 370
Contact time: 1 dpw 1 other per week 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 12
Module content:
Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the "practice patient". The portfolio contains the student’s year mark, which is determined on a 50:50 basis with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.
Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and healthcare environment. Application of certain principles and skills in terms of:
- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the oral hygienist.
- Career possibilities.
- Managing a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

TBW 570 Comprehensive patient management 570
Academic organisation: Dental Management Sciences
Prerequisite: DFA 470, GAP 470, MFP 470, ODO 470, OFC 470, PDL 470, TBW 470, PTK 470, TMZ 470
Contact time: 1 dpw 1 lpw 1 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 14
Module content:
Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the "practice patient". The portfolio contains the student’s year mark, which is determined on a 50:50 basis with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.
Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and healthcare environment. Application of certain principles and skills in terms of:
- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the oral hygienist.
- Career possibilities.
- Managing a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

TBW 990 Thesis: Dental management sciences 990 (new)
Academic organisation: Dental Management Sciences
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

TCA 710 Applied surgical anatomy 710
Academic organisation: Maxillofacial and Oral Surgery
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

TCR 800 Thoracic surgery 800
Academic organisation: Surgery
Prerequisites: ANA 898, FSG 801, ANP 878, BVC 805
Period of presentation: Year
Language of tuition: Double medium **Credits:** 300

TCR 900 Thoracic surgery 900
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 1

TCR 990 Thesis: Thoracic surgery 990
Academic organisation: Surgery
Period of presentation: Year
Language of tuition: Double medium **Credits:** 480

TGG 370 Applied medicine 370
Academic organisation: Internal Medicine
Prerequisite: BOK 280, (BOK 281 or (BOK 285,287)), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
Contact time: 1 ppw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 11
Module content:
The purpose of this module is to enable the dentist to identify medical problems, which may have an effect on the dental treatment or may affect the patient's general health. The dentist must be able to interpret the patient's medical history, in order to modify the treatment plan accordingly to ensure a safe dental treatment and/or to refer the patient for medical or specialist care.

TGO 800 Essay: Dental health education 800
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

THM 700 Dental materials 700
Academic organisation: Odontology
Contact time: 2 spw 5 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

THM 710 Dental materials 710
Academic organisation: Odontology
Contact time: 1 spw 10 lpw 5 dpw
Period of presentation: Semester 1 and/or Semester 2
Language of tuition: Double medium **Credits:** 12

THW 800 Dissertation: Dental sciences 800
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 240

THW 990 Thesis: Dental sciences 990
Academic organisation: Dentistry General
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 270

TIN 700 Dental informatics 700
Academic organisation: Community Dentistry
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

TIN 710 Dental informatics 710
Academic organisation: Community Dentistry
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12

TKD 700 Applied nuclear medicine 700
Academic organisation: Nuclear Medicine
Contact time: 3 ppw 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

TKG 710 Theory of nuclear medicine 710
Academic organisation: Radiography
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 30

TMP 801 Applied oral pathology 801
Academic organisation: Oral Pathology and Oral Biology
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

TMP 871 Applied oral pathology 871
Academic organisation: Oral Pathology and Oral Biology
Contact time: 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 24

TMZ 470 Anaesthesiology 470
Academic organisation: Oral Pathology and Oral Biology
Prerequisite: GNK 388, MDB 370, TGG 370, FSG 370, FAR 370, RAD 370, TBW 370, ODO 370, PDL 370, DFA 370

Contact time: 1 lpw 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 16

TNM 800 Applied research methodology 800
Academic organisation: School of Health Systems and Public Health
Prerequisites: BOS 870
Period of presentation: Year
Language of tuition: English **Credits:** 5
Module content:
*Attendance module only

TQM 770 Principles of quality assurance 770
Academic organisation: School of Health Systems and Public Health
Contact time: 1 other per week 1 spw 1 lpw 1 ppw 1 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 10

TQM 870 Principles of quality assurance 870
Academic organisation: School of Health Systems and Public Health
Contact time: 1 dpw 1 lpw 1 other per week 1 spw 1 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10

ULT 710 Applied ultrasound imaging of the body 710
Academic organisation: Radiology
Contact time: 2 web-based periods per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 4

ULT 711 Applied ultrasound physics 711
Academic organisation: Radiology
Contact time: 2 web-based periods per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 2

ULT 712 Applied ultrasound pathology 712
Academic organisation: Radiology
Contact time: 2 web-based periods per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 4

ULT 713 Basic abdominal ultrasound 713
Academic organisation: Radiology
Contact time: 20 ppw 2 web-based periods per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 10

ULT 720 Basic pelvic ultrasound 720
Academic organisation: Radiology
Contact time: 20 ppw 2 web-based periods per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 14

ULT 721 Ultrasound of small body parts 721
Academic organisation: Radiology
Contact time: 10 ppw 2 web-based periods per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 14

ULT 722 Elective module: Cardiac ultrasound 722
Academic organisation: Radiology
Contact time: 10 ppw 1 web-based period per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 723 Elective module: Obstetrics ultrasound 723
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 724 Elective module: General ultrasound 724
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 725 Elective module: Vascular ultrasound 725
Academic organisation: Radiology
Contact time: 10 ppw 1 web-based period per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 730 Abdominal ultrasound 730
Academic organisation: Radiology
Contact time: 2 web-based periods per week 40 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 14

ULT 731 Obstetric ultrasound 731
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 14

ULT 732 Elective module: Cardiac ultrasound 732
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

ULT 733 Elective module: Obstetrics ultrasound 733
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

ULT 734 Elective module: General ultrasound 734
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

ULT 735 Elective module: Vascular ultrasound 735
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 12

ULT 740 Pelvic ultrasound 740
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 8

ULT 742 Elective module: Cardiac ultrasound 742
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 743 Elective module: Obstetrics ultrasound 743
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 744 Elective module: General ultrasound 744
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 745 Elective module: Vascular ultrasound 745
Academic organisation: Radiology
Contact time: 1 web-based period per week 10 ppw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 12

ULT 750 Final written examination 750
Academic organisation: Radiology
Prerequisite: One of ULT 722, ULT 723, ULT 724, ULT 725 as well as one of ULT 732, ULT 733, ULT 734, ULT 735, and one of ULT 742, ULT 743, ULT 744, ULT 745 as well as ULT 730, ULT 731, ULT 740.
Period of presentation: Semester 2
Language of tuition: English **Credits:** 0
Module content:
A portfolio of the continuous written assessments completed during each module for the PGDipGUS.

ULT 751 Practical examination 751
Academic organisation: Radiology
Prerequisite: One of ULT 722, ULT 723, ULT 724, ULT 725 as well as one of ULT 732, ULT 733, ULT 734, ULT 735, and one of ULT 742, ULT 743, ULT 744, ULT 745 as well as ULT 730, ULT 731, ULT 740.
Period of presentation: Semester 2
Language of tuition: English **Credits:** 0

URO 800 Urology 800
Academic organisation: Urology
Prerequisites: ANA 897, FSG 801, ANP 877, BVC 804
Period of presentation: Year
Language of tuition: English **Credits:** 300

URO 900 Urology 900
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 1

URO 990 Thesis: Urology 990
Academic organisation: Urology
Period of presentation: Year
Language of tuition: English **Credits:** 480

VDN 110 Nursing dynamics 110
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 14
Module content:
Healthcare environment: structure, dynamics and impact on the clinical standards of nursing practice.
National population and health profiles. Epidemiological viewpoints on health. The healthcare environment and the dynamics of healthcare services. Factors influencing contemporary health service delivery. Policies and the rendering of healthcare in South Africa. Selected healthcare practice models (including the characteristics of nursing practice). The basic principles and methodology of nursing research. Applying research to nursing practice.
Leadership principles in nursing practice.
Leadership styles and skills. Directing in the nursing unit. Principles of human resource management and development. The principles of adult teaching and learning in clinical practice. The adult learner and evaluation.

VDN 120 Nursing dynamics 120
Academic organisation: Nursing Science
Prerequisite: VDN 110
Contact time: 1 other per week 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 14
Module content:
Communication and management principles for nursing practice.
Assertiveness and interpersonal communication, team building, and managing cultural

diversity and change. Written communications. Management of conflict, crisis intervention and stress management. Facilitation of health, wellness and community development.
Basic first-level management principles in nursing practice. Quality assurance and standards for nursing practice. Principles of financial planning and management. Private nursing practice.
Ethical-legal framework for nursing practice.
Professional tasks and responsibilities of registered nurses and midwives/accoucheurs. Development of the nursing profession, nursing ethos and fundamental viewpoints. Principles of professional practice. Conduct, statutory control and professional self-regulation. Human rights, the rights of patients and international perspectives on patient care. Ethics, ethical dilemmas and ethical decision-making in nursing practice.

VGK 201 Nursing science practical work 201
Academic organisation: Nursing Science
Contact time: 1 ppw 1 other per week
Period of presentation: Year
Language of tuition: English **Credits:** 50
Module content:
Practical work according to the area of specialisation.

VGK 808 Advanced women's health 808
Academic organisation: Nursing Science
Contact time: 2 lpw 4 dpw
Period of presentation: Year
Language of tuition: English **Credits:** 24

VGK 890 Dissertation: Nursing science 890
Academic organisation: Nursing Science
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 280

VGK 891 Essay 891
Academic organisation: Nursing Science
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 80

VGK 900 Nursing science 900
Academic organisation: Nursing Science
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 1

VGK 990 Thesis: Nursing science 990
Academic organisation: Nursing Science
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 480

VKM 171 Preventive oral health 171
Academic organisation: Community Dentistry
Contact time: 1 dpw 1 ppw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 15
Module content:
This module entails lectures and clinical work, pertaining to the scope of oral hygiene, in

the pre-clinical ward. It is aimed at enabling an oral hygiene student to develop his/her skills, knowledge and attitude by means of developing, implementing and evaluating a needs-driven primary and basic-secondary preventive programme for a patient.

VKM 271 Preventive oral health 271
Academic organisation: Community Dentistry
Contact time: 1 lpw (30 weeks) 6 p (2 h) (30 weeks)
Period of presentation: Year (promotion module)
Language of tuition: Double medium **Credits:**58
Module content:
This module is a continuation of (VKM 171) Preventive oral health 171 and is aimed at enabling an oral hygiene student to develop his/her skills, knowledge and attitude by means of devising, implementing and evaluating a needs-driven primary and basic-secondary preventive programme for a patient. This module entails lectures and clinical work, pertaining to the scope of oral hygiene, on real patients.

VKM 371 Preventive oral health 371
Academic organisation: Community Dentistry
Prerequisite: ODO 271, OFC 271, RAD 271, PDL 271, ORD 271, GAP 271, VKM 271, TBW 271
Contact time: 6 p (2 h) (30 weeks)
Period of presentation: Year
Language of tuition: Double medium **Credits:** 36
Module content:
This module entails clinical work, pertaining to the scope of oral hygiene, on patients in the preventive clinic. The module is aimed at enabling an oral hygiene student to develop his/her skills, knowledge and attitude by means of devising, implementing and evaluating a primary and basic-secondary preventive programme for a patient.

VNM 100 Nursing research methodology 100
Academic organisation: Nursing Science
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 22
Module content:
Basic schooling in the nursing research process.

VNM 800 Nursing research methodology 800
Academic organisation: Nursing Science
Contact time: 1 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 40

VOW 110 Nursing education theory 110
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 15
Module content:
Development of nursing education.
Historical development of nursing education.
Philosophical aspects and the functioning of nursing schools.

Recent developments in nursing education.
Outcomes-based education (OBE).
Curriculum development.
Curriculum building. Correlation between theory and practice. The learning process and active learner development.

VOW 120 Nursing education theory 120
Academic organisation: Nursing Science
Prerequisite: VOW 110
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 2
Language of tuition: English **Credits:** 15
Module content:
Facilitation of learning.
Assessment of progress and evaluation.
Nursing process as modality in nursing education.
Allocation of learners in clinical practice and the facilitation of clinical learning. Nursing theories and their application.

VOW 250 Nursing education 250
Academic organisation: Nursing Science
Prerequisite: VOW 110, VOW 120
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20
Module content:
Syllabus: available on request from the head of department.

VOW 260 Nursing education 260
Academic organisation: Nursing Science
Prerequisite: VOW 250
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Syllabus: available on request from the head of department.

VOW 300 Nursing education 300
Academic organisation: Nursing Science
Prerequisite: VOW 250, VOW 260
Contact time: 2 dpw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 60
Module content:
Syllabus: available on request from the head of department.

VPB 110 Nursing management 110
Academic organisation: Nursing Science
Contact time: 2 lpw 1 other per week
Period of presentation: Semester 1
Language of tuition: English **Credits:** 25
Module content:
Systems approach, theories and policies: Application in nursing management. Ethical

code and the generic administrative process. Planning and organising on first-level management. Healthcare facilities, financial planning and time utilisation. Problem-solving, change and organisation.

VPB 120 Nursing management 120
Academic organisation: Nursing Science
Prerequisite: VPB 110
Contact time: 1 other per week 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 25
Module content:
Directing on first-level management. Provision and utilisation of personnel. Leadership. Control on first-level management. Inspections and supervision. Patient classification and record keeping.

VPB 160 Nursing management 160
Academic organisation: Nursing Science
Prerequisite: VPB 110, VPB 120
Contact time: 2 ppw
Period of presentation: Year
Language of tuition: English **Credits:** 10
Module content:
*Attendance module only
Nursing management practical work.
Compulsory practical work, including budgeting, statistics, non-nursing duties, job descriptions, memoranda and report writing. Performance appraisal tool.

VPB 250 Nursing management 250
Academic organisation: Nursing Science
Prerequisite: VPB 110, VPB 120
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 20
Module content:
The responsibilities of the nursing manager with regard to the provision and use of nursing personnel.

VPB 260 Nursing management 260
Academic organisation: Nursing Science
Prerequisite: VPB 250
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 20
Module content:
The responsibilities of the nursing manager with regard to the retaining of nursing staff and the rendering of a quality nursing service.

VPB 300 Nursing management 300
Academic organisation: Nursing Science
Prerequisite: VPB 250,VPB 260
Contact time: 2 dpw 2 lpw
Period of presentation: Year

Language of tuition: English **Credits:** 60
Module content:
The nursing manager on mid-level management as planner, organiser, leader and controller.

VPT 160 Systems of nursing practice 160
Academic organisation: Nursing Science
Contact time: 1 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 20
Module content:
General systems of clinical nursing practice.
First aid, CPR and primary emergency care. Haemodynamic monitoring, the evaluation of oxygenation status, acid-base and electrolyte balance. Principles of mechanical ventilation. Basic interpretation skills in radiographic imaging. Electrocardiography: basic principles and application.

VPT 260 Systems of nursing practice 260
Academic organisation: Nursing Science
Prerequisite: VPT 160
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 60
Module content:
Specialised systems of clinical nursing practice.
The systems of nursing practice in one of the following clinical nursing speciality areas: critical care, emergency nursing, advanced midwifery, neonatal nursing, operating theatre nursing or child nursing. Contemporary trends and issues.

VPT 360 Systems of nursing practice 360
Academic organisation: Nursing Science
Prerequisite: VPT 260
Contact time: 2 lpw 2 dpw
Period of presentation: Year
Language of tuition: English **Credits: 3**5
Module content:
Specialised systems of clinical nursing practice.
The more advanced systems of nursing practice in one of the following clinical nursing speciality areas: critical care, emergency nursing, advanced midwifery, neonatal nursing, operating theatre nursing or child nursing. Contemporary trends and issues.

VSG 864 Nutrition care 864
Academic organisation: Human Nutrition
Contact time: 1 dpw 5 web-based periods per week 2 other per week 10 spw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 30

VTH 700 Preventive dentistry 700
Academic organisation: Community Dentistry
Contact time: 1 dpw 1 spw
Period of presentation: Year
Language of tuition: Both Afr and Eng **Credits:** 100

WKT 881 Practical work and work assignments 881
Academic organisation: Pharmacology
Contact time: 1 spw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 40

WKT 882 Practical work and work assignments 882
Academic organisation: Pharmacology
Contact time: 1 spw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 40

WKT 883 Practical work and work assignments 883
Academic organisation: Pharmacology
Contact time: 1 spw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 40

WSD 701 Work study 701
Academic organisation: Occupational Therapy
Contact time: 2 lpw 2 ppw 1 spw 2 dpw
Period of presentation: Year
Language of tuition: Double medium **Credits:** 30
Module content:
Advanced study of method study and work-measurement, including mastership of MODAPTS.
Business management is an existing subject for the Postgraduate Diploma in Health Administration.

LISTS OF MODULES OFFERED BY OTHER FACULTIES

Alphabetical list of modules offered by the Faculty of Natural and Agricultural Sciences

AGV 413 Communication for sustainable rural development 413
Academic organisation: Agricultural Economics, Extension and Rural Devel
Prerequisite: Health Sciences students: second year status
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: English **Credits:** 20
Module content:
Introduction to the communication process and its importance for sustainable development; the models of communication; critical elements and factors in communication; communication and perception. Use of non-verbal communication. Persuasion and credibility. Messages and message treatment; audience and audience identification; channels and methods of communication. Effective listening and feedback. Practical training in communication: Effective speaking; visual aids in communication; managing conflict; report writing. Introduction to Appreciative Inquiry as a communication approach.

BCM 251 Introduction to proteins and enzymes 251
Academic organisation: Biochemistry
Prerequisite: CMY 117 GS, CMY 127 GS and MLB 111 GS
Contact time: 2 lpw 0.5 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12
Module content:
Structural and ionic properties of amino acids. Peptides, the peptide bond, primary, secondary, tertiary and quaternary structure of proteins. Interactions that stabilize protein structure, denaturation and renaturation of proteins. Introduction to methods for the purification of proteins, amino acid composition, and sequence determinations. Introduction to enzyme kinetics and enzyme inhibition. Allosteric enzymes, regulation of enzyme activity, active centres and mechanisms of enzyme catalysis. Examples of industrial applications of enzymes. Practical training in laboratory techniques and Good Laboratory Practice. Techniques for the quantitative and qualitative analysis of biological molecules. Processing and presentation of scientific data.

BCM 252 Carbohydrate metabolism 252
Academic organisation: Biochemistry
Prerequisite: CMY 117 GS, CMY 127 GS and MLB 111 GS
Contact time: 2 lpw 0.5 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12
Module content:
Biochemistry of carbohydrates. Thermodynamics and bioenergetics. Glycolysis, citric acid cycle and electron transport. Glycogen metabolism, pentose-phosphate pathway, gluconeogenesis and photosynthesis. Practical training in study and analysis of metabolic pathways and enzymes. Scientific method and design: Hypothesis design and testing, method design and scientific controls.

BCM 261 Lipid and nitrogen metabolism 261
Academic organisation: Biochemistry
Prerequisite: CMY 117 GS, CMY 127 GS and MLB 111 GS
Contact time: 2 lpw 0.5 ppw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 12
Module content:
Biochemistry of lipids, membrane structure, anabolism and catabolism of lipids. Nitrogen metabolism, amino acid biosynthesis and catabolism. Biosynthesis of neuro-transmitters, pigments, hormones and nucleotides from amino acids. Catabolism of pureness and pyrimidines. Therapeutic agents directed against nucleotide metabolism. Examples of in-born errors of metabolism of nitrogen containing compounds. The urea cycle, nitrogen excretion. Practical training in scientific writing skills: evaluation of a scientific report. Techniques for separation and analysis of biological molecules.

BCM 262 Biochemical principles of nutrition and toxicology 262
Academic organisation: Biochemistry
Prerequisite: CMY 117 GS, CMY127 GS and MLB 111 GS
Contact time: 2 lpw 0.5 ppw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 12
Module content:
Biochemistry of nutrition and toxicology. Proximate analysis of nutrients. Review of energy requirements and expenditure. Respiratory quotient. Requirements and function of water, vitamins and minerals. Interpretation and modification of RDA values for specific diets, eg growth, exercise, pregnancy and lactation, aging and starvation. Interaction between nutrients. Comparison of monogastric and ruminant. Cholesterol, polyunsatured, essential fatty acids and dietary anti-oxidants. Oxidation of fats. Biochemical mechanisms of water- and fat-soluble vitamins and assessment of vitamin status. Mineral requirements, biochemical mechanisms and diarrhea. Biochemistry of xenobiotics absorption, distribution, metabolism and excretion (ADME), detoxification reactions: oxidation/reduction (Phase I), conjunctions (Phase II); factors affecting metabolism and disposition. Toxic responses: tissue damage and physiological effects, teratogenesis, immunotoxicity, mutagenesis and carcinogenesis. Examples of toxins, biochemical mechanisms of common toxins and their antidotes. Antibiotics and resistance. Natural toxins from fungi, plants and animals: goitrogens, cyanogens, cholinesterase inhibitors, ergotoxin, aflatoxins. Practical training in analyses of nutrients, fatty acids separations, antiosidant determination, and enzyme activity measurements, PO ration of mitochondria electrophoresis, extraction, solubility and gel permeation techniques

CMY 117 General chemistry 117
Academic organisation: Chemistry
Prerequisite: Refer to Regulation 1.2
Contact time: 1 ppw 4 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 16
Module content:
Theory: General introduction to inorganic and analytical chemistry. Nomenclature of inorganic ions and compounds, stoichiometric calculations concerning chemical reactions, redox reactions, solubilities, atomic structure, periodicity. Inorganic and physical chemistry. Molecular structure and chemical bonding using the VSEPR models. Chemical equilibrium, acids and bases, buffers, precipitation.

CMY 127 General chemistry 127
Academic organisation: Chemistry
Prerequisite: Natural and Agricultural Sciences students: CMY 117 GS
Health Sciences students: none
Contact time: 1 ppw 4 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 16
Module content:
Theory: General physical-analytical chemistry: Physical behaviour of gases, liquids and solids, intermolecular forces, solutions: Organic chemistry: Structure (bonding), nomenclature, isomerism, introductory stereochemistry, introduction to chemical reactions and chemical properties of organic compounds and biological compounds, i.e. carbohydrates, lipids and aminoacids. Practical: Molecular structure (model building), synthesis and properties of simple organic compounds.

CMY 151 Chemistry 151
Academic organisation: Chemistry
Prerequisite: Refer to Regulation 1.2
Contact time: 1 ppw 4 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 16
Module content:
Theory: Introduction to general chemistry: Measurement in chemistry, matter and energy, atomic theory and the periodic table, chemical compounds and chemical bonds; quantitative relationships in chemical reactions, states of matter and the kinetic theory; solutions and colloids, acids, bases and ionic compounds, chemical equilibria. Introduction to organic chemistry: Chemical bonding in organic compounds, nature, physical properties and nomenclature of simple organic molecules, isomerism, chemical properties of alkanes and cycloalkanes, alkenes, alcohols, aldehydes and ketones, carboxylic acids and esters, amines and amides, carbohydrates, proteins, and lipids.
Practicals.

MLB 111 Molecular and cell biology 111
Academic organisation: Genetics
Prerequisite: Refer to Regulation 1.2
Contact time: 1 ppw 4 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 16
Module content:
Introductory study of the ultra structure, function and composition of representative cells and cell components. General principles of cell metabolism, molecular genetics, cell growth, cell division and differentiation.

PHY 131 Physics for biology students 131
Academic organisation: Physics
Prerequisite: Refer to Regulation 1. 2
Contact time: 4 lpw 1 dpw 1 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 16
Module content:
Units, vectors, one dimensional kinematics, dynamics, work, equilibrium, sound, liquids, heat, thermodynamic processes, electric potential and capacitance, direct current and alternating current, optics, modern physics, radio activity.

PHY 141 General physics 141
Academic organisation: Physics
Prerequisite: PHY 131 GS as well as 50% minimum for the practical component of PHY 131 or TDH
Contact time: 1 lpw 2 tpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 16
Module content:
*This is an anti-semester presentation of the module PHY 131 General Physics 131. Refer to PHY 131 for the content description. Students will not be credited for both PHY 131 and PHY 141 for degree purposes.

RFI 110 Radiation physics 110
Academic organisation: Physics
Contact time: 2 lpw
Period of presentation: Year
Language of tuition: Both English and Afrikaans **Credits:** 10
Module content:
Units: converting, dimensional analysis. Mechanics: momentum, force, energy, circular motion, moment of inertia, angular momentum, simple harmonic motion.
Electrostatics: Coulomb's law, electric field, potential. Direct currents: resistors, Ohm's law. Capacitors: capacitance, series, parallel energy. Magnetism: force on a moving charge, electric motor. Electromagnetic induction: Faraday's law, Lenz's Law, generators. Alternating currents: average and rms value, three phase, rectification, transformers. Electrical safety. Atomic structure: ionisation, excitation.
X-rays: production, absorption.

RFI 210 Radiation physics 210
Academic organisation: Physics
Prerequisite: RFI 110, MTL 180, RAN 100, FSG 161, FSG 162, RAW 182 and RAW 180
Contact time: 3 lpw
Period of presentation: Semester 1
Language of tuition: Afrikaans **Credits:** 10
Module content:
X-ray generator: transformer, energy losses, rectifiers, capacitor-discharge systems, kVp and mA control, high voltage cables. Image intensifiers: design, brightness gain, coupling systems. TV camera and monitor: design, video signal, scanning. Image quality. Optics: reflection, refraction, total internal reflection, mirrors, lenses, thin lens formula, lens aberrations, fiber optics, lasers, laser camera. Computers: basic hardware, digital principles and terminology, data storage.

RFI 211 Radiation physics 211
Academic organisation: Physics
Prerequisite: RFI 110, RAW 180, RAN 100, FSG 161, FSG 162, RAW 182 and MTL 180
Contact time: 4 lpw
Period of presentation: Semester 2
Language of tuition: Afrikaans **Credits:** 10
Module content:
Radio-active decay: half-life, alfa decay, beta decay, gamma decay. Production of isotopes cyclotron, nuclear reactor, Van de Graaff accelerator. Absorption: nucleons, alfa particles, beta particles. Dosimetry: exposure, absorbed dose, equivalent dose, effective dose, dose limits. Radiation detectors: Geiger counter, scintillation counter,

thermoluminescent detector, semi-conductor detectors. Radiopharmaceuticals. Biological effects: genetic and somatic effects.

RFI 310 Radiation physics 310
Academic organisation: Physics
Prerequisite: FSG 251, RFI 210, RAW 281, RBG 281, RAN 280, RAW 282, FSG 252, FSG 262, RAW 284 and RFI 211
Contact time: 3 lpw
Period of presentation: Semester 1
Language of tuition: Afrikaans **Credits:** 10
Module content:
Computed tomography: CT generations. Equipment: x-ray tube, collimators, detectors. Image reconstruction: fundamental equations, algorithms.
Image properties: field size, image matrix, voxel, pixel, CT number, window width and height. Image quality: spatial resolution, contrast resolution, quantum mottle, spatial uniformity and frequency. Image processing: edge enhancement, pixel shifting and subtraction. Digital radiography: X-ray, equipment, analog to digital conversion, linear and logarithmic subtraction, image noise. Ultrasound: theory, transducers, piezo-electric crystals, resonant frequency, interaction with matter, acoustic impedance, Doppler techniques. Magnetic resonance: medical applications.

VDB 321 Food service management 321
Academic organisation: Consumer Science
Prerequisite: Natural and Agricultural Sciences students: VDS 322 #
Contact time: 1 ppw 3 lpw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 18
Module content:
Planning and layout of food service units for different food service systems. Equipment for food services. Factors influencing the choice and purchasing of equipment for different food service units. Hygiene and safety in food services. management in food service systems. Financial management in food services.

VDS 111 Basic food preparation 111
Academic organisation: Consumer Science
Contact time: 0.5ppw 1 dpw 1 lpw 1 ppw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 6
Module content:
Module 1: Basic food preparation and food preparation techniques. *Mise en place*, weighing and measurement techniques, equipment and terminology as applied in food preparation. History of the foodservice industry and contemporary chefs. Basic food quality control.
Module 2: Food preparation basics of the following: stocks, soups and sauces.

VDS 210 Food commodities and preparation 210
Academic organisation: Consumer Science
Prerequisite: VDS 121
Contact time: 1 ppw 3 lpw
Period of presentation: Semester 1
Language of tuition: Double Medium **Credits:** 18

Module content:
Module 1: The study of different food systems with regard to food preparation. Physical and chemical properties and the influence of the composition in food preparation.
Module 2: Food preparation basics of the following: fruit and vegetables; salads; frozen desserts; gelatine.
Module 3: Origin and development of food habits; Factors influencing habits and choice; Dynamics of food habits. Influence of religion on food habits. Food habits of different ethnic groups.

VDS 221 Food commodities and preparation 221
Academic organisation: Consumer Science
Prerequisite: VDS 210
Contact time: 1 ppw 3 lpw
Period of presentation: Semester 2
Language of tuition: Double Medium **Credits:** 18
Module content:
Module 1: The study of different food systems with regard to food preparation. Physical and chemical properties and the influence of the composition in food preparation.
Module 2: Food preparation basics of the following: meat; poultry; fish, legumes, eggs and milk, baked products (whole spectrum); leavening agents.
Module 3: The influence of culture on cuisines. Study of the cuisines of selected African, European and Eastern countries.

VDS 322 Large-scale food production and restaurant management 322
Academic organisation: Consumer Science
Prerequisite: VDS 210 and VDS 221
Contact time: 3 lpw 3 ppw
Period of presentation: Semester 2
Language of tuition: Double medium **Credits:** 31
Module content:
Module 1 and practical work: Principles of large-scale food preparation and the practical application thereof in a practical restaurant situation. Restaurant management. Recipe formats and adjustment applicable to large-scale food preparation. Work scheduling and the practical exposure to the use of large scale catering equipment in a real life situation.
Module 2: Menu planning for different food service systems and styles of food service.
Module 3: Large scale food procurement, consumption and storage.
Practical work: Principles of large-scale food preparation and the practical application thereof in a practical restaurant situation. Recipe formats and adjustment applicable to large-scale food preparation. Work scheduling and the practical exposure to the use of large scale catering equipment in a real life situation

Alphabetical list of modules offered by the Faculty of Engineering, Built Environment and IT

AIM 101 Academic information management 101
Academic organisation: School of Information Technology
Contact time: 2 lpw
Period of presentation: Semester 1 or Semester 2
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. Apply effective search strategies in different

technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

AIM 111 Academic information management 111
Academic organisation: School of Information Technology
Contact time: 2lpw
Period of presentation: Semester 1
Language of tuition: Both Eng and Afr **Credits:** 4
Module content:
Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology.

AIM 121 Academic information management 121 (new)
Academic organisation: School of Information Technology
Contact time: 2lpw
Period of presentation: Semester 2
Language of tuition: Both Eng and Afr **Credits:** 4
Module content:
Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

Alphabetical list of modules offered by the Faculty of Economic and Management Sciences

BDO 110 Industrial and organisational psychology 110
Academic organisation: Human Resource Management
Contact time: 4 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Introduction to industrial and organisational psychology
This section is an introduction to the various schools of thought in psychology with particular emphasis on industrial and organisational psychology and its fields of application. The basic principles of scientifically systematising industrial psychological knowledge will be discussed. The biological basis of behaviour will be addressed in order to lay the foundation for the application of ergonomical principles.
Individual processes
This section consists of the principles of learning as found in the work context. The role of perception in the work environment will be discussed by considering aspects such as shape, depth, distance and colour perceptions. Cognition, thought, reasoning, memory, creativity and decision-making will be included. Intelligence will be addressed and placed in an Industrial and organisational psychology perspective.

BDO 120 Industrial and organisational psychology 120
Academic organisation: Human Resource Management
Contact time: 4 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 10
Module content:
Development and personality

This module consists of a discussion of the life span and important periods in human development with emphasis on their meaning in the work context. With regard to personality, the following themes will be addressed:
the cultural context of personality, its formation and determinants of personality; personality as determinant of behaviour as well as the development and maintenance of self-image. Attention will be given to the basic methods of personality measuring and personality assessment.
Man in interaction
The nature and functions of as well as changes in attitudes and values will be discussed in order to gain a better understanding of them in a work context. Causes and handling of aggression will be discussed to get a better understanding of conflict. The causes, kinds and handling of conflict are discussed within a work context. Adaptability to work is addressed to create a basis for the management of a healthy worker corps. Earlier and contemporary motivational theories will be comprehensively discussed to establish a healthy basis for their implementation.

BDO 219 Industrial and organisational psychology 219
Academic organisation: Human Resource Management
Prerequisite: BDO 110 GS, 120 GS
Contact time: 3 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 16
Module content:
Group behaviour and leadership
This module will focus on organisational behaviour with specific reference to the principles of group behaviour and the role of work teams in the organisation. Particular attention will be paid to group development, group interaction, group structures, group processes and the promotion of team performance in the organisation. Leadership and the effect of power and politics in the organisation will be studied. The function of leadership in individual, group and task-oriented behaviour will also be addressed.
Organisational behaviour
The behavioural basis for organisational structuring and organisation design will be addressed. This will include organisational culture as an important facet in any organisation. The dynamics and approaches to organisational change will be addressed with specific reference to the role of change agents, resistance to change and organisational development with a practical discussion of the contemporary problems of organisational change, personnel turnover, fatigue, boredom, absenteeism, conflict, accidents.

BDO 229 Industrial and organisational psychology 229
Academic organisation: Human Resource Management
Prerequisite: BDO 219 GS
Contact time: 3 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 16
Module content:
Employee health and ergonomics
This section focuses on actual and important aspects of safety and health management in organisations, as well as the nature and role of ergonomics therein. These aspects are theoretically and practically covered, providing the student with the knowledge and skills required in the organisational psychology and human resource management field.

Workforce diversity
This section will focus on the development of sensitivity towards a diverse employee corps and the development of mutual respect and tolerance between individuals and groups in any organisation. Particular attention will be given to the prerequisites for the effective implementation of a diversity management programme in an organisation.

BDO 319 Industrial and organisational psychology 319
Academic organisation: Human Resource Management
Prerequisite: BDO 110, 120; BDO 219 GS, BDO 229 GS
Contact time: 3 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Human resource management systems
This section provides an introduction to human resource management systems and addresses current developments and problems in the field, which will be comprehensively addressed and include the following: job analysis, description, specification, and design, remuneration theory and systems, job evaluation and grading as well as benefit and fringe-benefit systems. Remuneration systems as motivation for employees will also be included.
Human resources provision
Human resources provision will be presented from an industrial psychological perspective and will include the following themes: human resources planning; macro and micro variables which could affect personnel forecasting and provision; human resource information systems; the auditing of skills as well as techniques such as recruitment, selection, placement and induction.

BDO 329 Industrial and organisational psychology 329
Academic organisation: Human Resource Management
Prerequisite: BDO 319 GS
Contact time: 3 lpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
Motivation and performance management
This section will address the main characteristics of a performance management system and will focus on the strategic and motivational value of the process. Performance management will be addressed under the following headings: criteria development; performance planning; data gathering; observation and documenting; performance appraisal; appraisal instruments; performance feedback to promote motivation.
People and career development
This section will address current methods that can be used to develop human resources and to present career development programmes in order to promote performance at both an individual and organisational level. Emphasis will be on needs analysis, curriculum design, goal setting for learning, programme development, preparation of materials, training interventions, presentation and facilitation skills as well as course evaluation. The integration of individual career expectations with the organisation's requirements and strategies will be illustrated based on career development.

Alphabetical list of modules offered by the Faculty of Humanities

AFR 111 Afrikaans 111
Academic organisation: Afrikaans
Contact time: 1 lpw
Period of presentation: Semester 1
Language of tuition: Double medium **Credits:** 12
Module content:
Basic Afrikaans grammar and pronunciation and a specific technical (oral health) vocabulary is studied and practised to enable students to converse with patients in the professional environment. In this practical module, students are required to memorise phrases and to practise conversation skills under close observation.

ELH 111 Academic English for Health Sciences (MBChB and BChD
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 6
Module content:
Proficiency in academic English by interpreting and contextualising philosophical and sociological texts prescribed during the first semester; medical ethics, study skill improvement.

ELH 112 Academic English for Health Sciences (MBChB and BChD
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 6
Module content:
Proficiency in academic English used in the basic medical sciences; analysis, synthesis and presentation of select texts prescribed in the second semester.

ELH 121 Academic English for Health Sciences (BCur, BDietetics, BOH, BOccTher, BRad and BPhysT)
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw 1tpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 6
Module content:
Academic reading as well as academic writing and presentation skills, based on the approach followed in the healthcare sciences.

ELH 122 Academic English for Health Sciences (BCur, BDietetics, BOH, BOccTher, BRad and BPhysT)
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw 1tpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 6
Module content:
Study of specific language skills required in the healthcare sciences.

ELH 131 Academic English for Health Sciences (BClinical Medical Practice)
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw 1tpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 6
Module content:
Study of English used in medicine, aimed at developing reading, writing and interviewing skills in clinical situations.

ELH 132 Academic English for Health Sciences (BClinical Medical Practice)
Academic organisation: Unit for Academic Literacy
Contact time: 2 lpw 1tpw
Period of presentation: Semester 2
Language of tuition: English **Credits:** 6
Module content:
Further study of English in medicine, with emphasis on language skills required in clinical contexts.

FIL 155 Science and world views 155
Academic organisation: Philosophy
Contact time: 1 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 6
Module content:
World views in ancient Greece. Socrates. Plato – the founder of Western thought. Aristotle – the foundation of a new tradition. Leonardo da Vinci. The foundation of modern science. The wonder years of the seventeenth century – the flourishing of the sciences and philosophy. The rising of mechanisation. A drastic turn in man's vision – the rise of psychology. How the theory of relativity changed our view of the cosmos. Quantum theory and its implications for the modern world view. The biological sciences and the secrets of life. The rise and role of psychology. The neuro-sciences. The place, role and benefit of philosophical thought in the sciences.

MGW 112 People and their environment 112
Academic organisation: Sociology
Contact time: 4 lpw
Period of presentation: Semester 1
Language of tuition: English **Credits:** 6
Module content:
This module comprises basic psychology and sociology concepts relevant to Medicine, and to Dentistry, in the case of BChD students.
Basic psychiatric concepts are also taught.W

MTL 180 Medical terminology 180
Academic organisation: Ancient Languages
Contact time: 2 lpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
The acquisition of a basic medical orientated vocabulary compiled from Latin and Greek stem forms combined with prefixes and suffixes derived from those languages. The manner in which the meanings of medical terms can be determined by analysing the

terms into their recognisable meaningful constituent parts, is taught and exercised. The functional use of medical terms in context as practical outcome of terminological application is continually attended to.

SEP 110 Sepedi for beginners 110
Academic organisation: African Languages
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1
Language of tuition: Double Medium **Credits:** 12
Module content:
*For absolute beginners only.
*Only students from the School of Healthcare Sciences may take this module during semester 2. All other students must take this module during semester 1. Also note that students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.
The acquisition of basic Sepedi communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific social situations.

SLK 110 Psychology 110
Academic organisation: Psychology
Contact time: 2 lpw 2 dpw
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
This module is a general orientation to psychology. An introduction is given to various theoretical approaches in psychology, and the development of psychology as a science is discussed. Selected themes from everyday life are explored and integrated with psychological principles. This module focuses on major personality theories. An introduction is given to various paradigmatic approaches in Psychology.

SLK 120 Psychology 120
Academic organisation: Psychology
Contact time: 2 lpw 2 dpw
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 12
Module content:
This module introduces the student to a basic knowledge and understanding of the biological basis of human behaviour. The module addresses the key concepts and terminology related to the biological subsystem, the rules and principles guiding biological psychology, and identification of the interrelatedness of different biological systems and subsystems. In this module various cognitive processes are studied, including perception, memory, thinking, intelligence and creativity. Illustrations are given of various thinking processes, such as problem solving, critical, analytic and integrative thinking.

SLK 210 Psychology 210
Academic organisation: Psychology
Contact time: 2 lpw 2 dpw
Prerequisite: SLK 110, SLK 120(GS)
Period of presentation: Semester 1
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
In this module human development from conception through adolescence to adulthood is

discussed with reference to various psychological theories. Incorporated are the developmental changes related to cognitive, physical, emotional and social functioning of the individual and the context of work in adulthood. Traditional and contemporary theories of human development explaining and describing these stages are studied in order to address the key issues related to both childhood and adulthood.

SLK 220 Psychology 220
Academic organisation: Psychology
Contact time: 2 lpw 2 dpw
Prerequisite: SLK 110, SLK 120(GS)
Period of presentation: Semester 2
Language of tuition: Both Afr and Eng **Credits:** 20
Module content:
This module is a social-psychological perspective on interpersonal and group processes. Themes that are covered include communication, pro-social behaviour, social influence and persuasion, political transformation, violence, and group behaviour.

ZUL 110 isiZulu for beginners 110
Academic organisation: African Languages
Contact time: 2 lpw 1 dpw
Period of presentation: Semester 1 and Semester 2
Language of tuition: Double Medium **Credits:** 12
Module content:
*For absolute beginners only
*Only students from the School of Healthcare Sciences may take this module during semester 2. All other students must take this module during semester 1. Students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.
The acquistion of basic isiZulu communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific situations.

E&OE