UNIVERSITY OF CAPE TOWN

FACULTY OF HEALTH SCIENCES
(UNDERGRADUATE)

2020

Postal Address: University of Cape Town
Private Bag X3
7701 RONDEBOSCH

Dean's & Faculty Offices: Barnard Fuller Building
Anzio Road
Observatory

Office Hours: Mondays to Fridays: 08h30 - 16h30

Fax: (021) 447 8955

Telephones:
Dean's Office (021) 406 6346
Faculty Office (021) 406 6634
Accounts and Fees (021) 650 1704
Admissions (021) 650 2128

Internet:
UCT's Home Page http://www.uct.ac.za
Health Sciences Home Page http://www.health.uct.ac.za
Dean's Office dean.hs@uct.ac.za
Faculty Office N/A
International Academic Programmes Office iapo@uct.ac.za

The Registrar's and General Enquiries offices are located in the Bremner Building and remain open during the lunch hour. The Admissions Office and Student Records Office are located in the Masingene Building, Middle Campus, and are open from 08h30 to 16h30. The Cashier's Office is located in Kramer Building, Middle Campus, and is open from 09h00 to 15h30.

This handbook is part of a series that consists of
Book 1: Undergraduate Prospectus
Book 2: Authorities and information of record
Book 3: General Rules and Policies
Book 4: Academic Calendar and Meetings
Book 5: Student Support and Services
Book 6-11: Handbooks of the Faculties of Commerce, Engineering & the Built Environment, Health Sciences, Humanities, Law, Science
Book 12: Student Fees
Book 13: Bursary and Loan Opportunities for Undergraduate Study
Book 14: Financial assistance for Postgraduate Study and Postdoctoral Research
The University has made every effort to ensure the accuracy of the information in its handbooks. However, we reserve the right at any time, if circumstances dictate (for example, if there are not sufficient students registered), to

(i) make alterations or changes to any of the published details of the opportunities on offer; or
(ii) add to or withdraw any of the opportunities on offer.

Our students are given every assurance that changes to opportunities will only be made under compelling circumstances and students will be fully informed as soon as possible.
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Guide to the usage of this Handbook

The following is a general overview of the structure of this Handbook for the guidance of users. The contents are organised in a number of different sections (see below) each of which has a particular focus. The sections are interlinked by cross-references where relevant.

**General Information:** This section includes contact details, term dates, disciplines within departments, definitions of terminology used and other explanatory notes.

**General rules for undergraduate students:** The rules in this section must be read in conjunction with the degree-specific rules in the next section.

**Rules and curricula for undergraduate programmes:** This section gives an outline of each of the undergraduate degrees and courses within those degrees, as well as rules relating to curricula. Please note especially the readmission rules under each programme; students who fall foul of these rules are in danger of being refused readmission.

**Other courses offered:** This section lists courses that do not form part of the postgraduate degrees, and include stand-alone courses offered to students in this faculty or other faculties.

**Faculty structure and departments:** The second half of this book lists all the teaching and research staff in departments and research structures.

**Additional information:** This section gives details of prizes and awards, charters (e.g., the Teaching and Learning Charter) and Faculty-specific policies for postgraduate students.

All students must also familiarise themselves with the University rules in Handbook 3, General Rules and Policies. Students are also expected to check annually whether the rules or curriculum requirements have changed since the last edition of this Handbook or of the General Rules book.
GENERAL INFORMATION

Dean’s office, Faculty Office and other central offices in the Faculty

DEAN'S OFFICE AND FACULTY OFFICE
L2, Barnard Fuller Building and Wernher & Beit North
(Tel: 021 406 6346 and 021 406 6634)

Dean:
TBC

Professor and Deputy Dean: Research:
A Wonkam, MBChB Cameroon MDDip (Medical Genetics) Switzerland PhD Cape Town

Deputy Dean: Postgraduate Education:
TBC

Deputy Dean: Undergraduate Education:
TBC

Deputy Dean: Clinical Health Services:
TBC

Faculty Manager: Academic Administration:
K Munesar, BA Social Work UDW PGDip (Personnel Management) Durban

Manager: Postgraduate Administration:
DJA Winckler, BA Pret

Manager: Undergraduate Administration:
C Cloete, LLB UWC

PRIMARY HEALTH CARE DIRECTORATE
Old Main Building, Groote Schuur Hospital, E47-25 (Tel: 021 406 6761)

Chair and Director:
S Reid, BSc (Medicine) MBChB Cape Town MFamMed Medunsa PhD UKZN

Senior Lecturers:
I Datay, MBChB Cape Town DPhil Oxon FCP South Africa
J Irlam, BScHons (Medicine) MPhil MSc Cape Town
C Tsampiras, MA London PhD Rhodes

Lecturer:
S Crawford-Browne, MSocSc Cape Town

Honorary Associate Professor:
L Jenkins, MBChB Stell MFamMed UKZN PhD Stell Dip (Anaesthesia) (Obstetrics & Gynaecology) (Health Services Management) CMCA
6 GENERAL INFORMATION

Honorary Lecturers:
K du Pré le Roux, MBChB Cape Town MA Sweden
B Gaunt, MBChB Cape Town MSc London Dip (Anaesthesia) (Obstetrics & Gynaecology) South Africa

Clinical Teaching Platform Manager:
D Swart, BScHons (Medicine) HDE (Postgraduate) Cape Town MPhil UWC

CBE Coordinator Eden District:
H Reuter, HDE Rhodes MBChB Dip (Addictions Care) Stell

Student Coordinator Eden District:
F Marais, MBChB Stell

Facility Manager:
S Naidoo, Dip (RNurs) (RM RK) (CHNurs) Durban

Site Facilitators:
C Beauzac, BAHons MA PhD UWC
L Davids, BSc (Dietetics) Stell BSocSc Cape Town
F Jordaan
P Ncamile, BA Unisa
T Xapa, Dip (Adult Education) (Business Planning) Cape Town

Site Coordinators:
N Daniels
Z Geyer, BA Cape Town BSc (Medical Bioscience) UWC
U Ismail, BSocSc Cape Town
F Le Roux
A Solomons, Dip (Human Resource Management) Unisa

Administrative Officer & PA to Director:
C Johnston, BA UJ

Senior Secretary:
E Kennell, PDSD Cape Town

CENTRE FOR BIOETHICS

c/o Philosophy Department, 3.03 Neville Alexander Building, University Avenue, Upper Campus, University of Cape Town.

The Bioethics Centre, formally established in 1992, grew out of the Bioethics Unit, which has functioned informally in the (then) Faculty of Medicine since 1988. Since 2009, the Bioethics Centre has been a joint Centre of the Faculty of Health Sciences and the Department of Philosophy in the Faculty of Humanities. Bioethics Centre staff are actively engaged in bioethics teaching and research, and provide a consultation service.

To arrange bioethics consultations please email: bioethicsconsult@uct.ac.za (all emails to this address are confidential). For general enquiries to the Bioethics Centre please email: bioethics@uct.ac.za

Professor and Director:
D Benatar, BSocScHons PhD Cape Town
Emeritus Professor:
SR Benatar, MBChB DSc (Medicine) Cape Town FFA FRCP (Hon) FCP SA (Hon)

Associate Professor:
J Anthony, MBChB Cape Town FCOG SA MPhil Stell

Emerita Associate Professor:
A Pope, LDipLib Stell BA LLB Rhodes PGDip (International Research Ethics) Cape Town

Senior Lecturers:
T Burgess, BSc (Physiotherapy) BScHons (Medicine) PhD Cape Town MHSc (Bioethics) University of Toronto
J de Vries, MSc Wageningen MSc European University Institute PhD Oxon
G Fried, BAHons Cape Town MPhil PhD Cantab
E Galgut, BAHons MA Witwatersrand MA Cape Town PhD Rutgers
G Hull, BAHons Cantab MPhil PhD London

Honorary Senior Lecturer:
L Henley, MSocSc MPhil (Bioethics) PhD Cape Town

Lecturer:
D Chapman, BSc Cape Town BScHons Rhodes MA Cape Town PhD New York

Contact details of University and Faculty administrative offices dealing with student matters

[Note: The Academic Administration section of the Faculty Office of Health Sciences is situated in the Wernher & Beit North building, one level down from the Dean’s Office.]

<table>
<thead>
<tr>
<th>Query:</th>
<th>Whom to approach:</th>
<th>Telephone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic transcripts/degree</td>
<td>Records Office</td>
<td>(021) 650 3595</td>
</tr>
<tr>
<td>certificates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admission: Postgraduate</td>
<td>Postgraduate Admission section of</td>
<td>(201) 406 6340 / 6028</td>
</tr>
<tr>
<td></td>
<td>Faculty Office of Health Sciences</td>
<td></td>
</tr>
<tr>
<td>Admission: Undergraduate</td>
<td>Undergraduate Administration section</td>
<td>(021) 406 6634</td>
</tr>
<tr>
<td></td>
<td>of Faculty Office of Health Sciences</td>
<td></td>
</tr>
<tr>
<td>Computer laboratory queries</td>
<td>ICTS, Anatomy Building, Health</td>
<td>(021) 406 6729</td>
</tr>
<tr>
<td></td>
<td>Sciences campus</td>
<td></td>
</tr>
<tr>
<td>Deferred examinations</td>
<td>Records Office</td>
<td>(021) 650 3595</td>
</tr>
<tr>
<td>Fee problems/accounts</td>
<td>Central Fees Office (Kramer Law</td>
<td>(021) 650 2142</td>
</tr>
<tr>
<td></td>
<td>Building)</td>
<td></td>
</tr>
<tr>
<td>Fee payments</td>
<td>Cashier’s Office (Kramer Law Building)</td>
<td>(021) 650 2207 / 2146</td>
</tr>
<tr>
<td></td>
<td>(09h30 to 15h30)</td>
<td></td>
</tr>
<tr>
<td>Financial assistance</td>
<td>Student Financial Aid Office (Kramer</td>
<td>(021) 650 2125</td>
</tr>
<tr>
<td></td>
<td>Law Building)</td>
<td></td>
</tr>
<tr>
<td>Medical Library queries</td>
<td>Medical Librarian, Health Sciences</td>
<td>(021) 406 6130</td>
</tr>
<tr>
<td></td>
<td>Faculty Library</td>
<td></td>
</tr>
<tr>
<td>Registration issues: Postgraduate</td>
<td>Postgraduate Administration section</td>
<td>(021) 650 3004</td>
</tr>
<tr>
<td></td>
<td>of Faculty Office of Health Sciences</td>
<td></td>
</tr>
</tbody>
</table>
Registration issues: Undergraduate Undergraduate Administration section of Faculty Office of Health Sciences (021) 406 6634
Student health matters Student Wellness (021) 650 1020
Student support: Postgraduate Postgraduate Administration section of Faculty Office of Health Sciences (021) 406 6327
(Other than academic support) Student Support of Faculty of Health Sciences (021) 406 5393
Undergraduate Student Development Undergraduate Administration Undergraduate Student Development and Support section of Faculty Office (021) 406 6634
Undergraduate Curriculum Matters Undergraduate Curriculum Matters

Associated Teaching Hospitals

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Chief Executive Officer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 MILITARY HOSPITAL</td>
<td>Col JJ Molomo</td>
</tr>
<tr>
<td>ALEXANDRA HOSPITAL</td>
<td>Ms Lynette van der Berg</td>
</tr>
<tr>
<td>GEORGE HOSPITAL</td>
<td>Mr Michael Vonk</td>
</tr>
<tr>
<td>GROOTE SCHUUR HOSPITAL</td>
<td>Dr Bavna Patel</td>
</tr>
<tr>
<td>KINGSBURY HOSPITAL</td>
<td>Dr Shrey Viranna</td>
</tr>
<tr>
<td>KNYSNA HOSPITAL</td>
<td>Dr Earl du Plooy</td>
</tr>
<tr>
<td>LIFE VINCENT PALLOTTI</td>
<td>Gavin Pike (Hospital Manager)</td>
</tr>
<tr>
<td>MITCHELLS’ PLAIN DISTRICT HOSPITAL</td>
<td>Dr Hans Human</td>
</tr>
<tr>
<td>MOSSEL BAY HOSPITAL</td>
<td>Dr Paul Rüschenbaum</td>
</tr>
<tr>
<td>NEW SOMERSET HOSPITAL</td>
<td>Dr Donna Stokes</td>
</tr>
<tr>
<td>OUDTSHOORN HOSPITAL</td>
<td>Dr Charles Dreyer (Medical Manager)</td>
</tr>
<tr>
<td>RED CROSS CHILDREN'S HOSPITAL</td>
<td>Dr Matodzi Mukosi</td>
</tr>
<tr>
<td>TYGERBERG HOSPITAL</td>
<td>Dr Dimitri Erasmus</td>
</tr>
<tr>
<td>VALKENBERG HOSPITAL</td>
<td>Mrs Carol Dean</td>
</tr>
<tr>
<td>VICTORIA HOSPITAL</td>
<td>Mr Patrick Jeftha (acting)</td>
</tr>
<tr>
<td>VREDENBURG HOSPITAL</td>
<td>Dr Silvio Morales-Perez</td>
</tr>
</tbody>
</table>

Health Sciences Student Council

Location: Ground Floor (Next to the Cafeteria), Barnard Fuller Building
Telephone: 021 406 6421
Office Hours: 13h00-14h00 weekdays
Term dates 2020

The 2020 term and registration dates for the various undergraduate degrees are given below:

### MBChB

<table>
<thead>
<tr>
<th>Term</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
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<tbody>
<tr>
<td>Term 2</td>
<td>30 Mar – 09 Jun</td>
<td>30 Mar – 12 Jun</td>
<td>30 Mar – 12 Jun</td>
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<td><strong>Vacation</strong></td>
<td><strong>10 Jun – 12 Jul</strong></td>
<td><strong>13 Jun – 05 Jul</strong></td>
<td><strong>13 Jun – 05 Jul</strong></td>
</tr>
<tr>
<td>Term 3</td>
<td>13 Jul – 21 Aug</td>
<td>06 July – 21 Aug</td>
<td>06 Jul – 20 Nov</td>
</tr>
</tbody>
</table>

**Fourth, Fifth & Sixth Year**

- Block 1: 20 Jan – 13 Mar
- Block 2: 16 Mar – 08 May
- Block 3: 11 May – 05 Jun
- **Vacation** | **08 Jun - 26 Jun** |
- Block 3 (cont.): 29 Jun – 24 Jul
- Block 4: 27 Jul – 18 Sept
- Block 5: 21 Sept – 13 Nov

### BSc AUDIOLOGY AND BSc SPEECH-LANGUAGE PATHOLOGY

<table>
<thead>
<tr>
<th>Term</th>
<th>First Year</th>
<th>Second, Third &amp; Fourth Year</th>
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</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>10 Feb – 20 Mar</td>
<td>20 Jan – 20 Mar</td>
</tr>
<tr>
<td><strong>Vacation</strong></td>
<td><strong>21 Mar – 29 Mar</strong></td>
<td><strong>21 Mar – 29 Mar</strong></td>
</tr>
<tr>
<td>Term 2</td>
<td>30 Mar – 09 Jun</td>
<td>30 Mar – 12 Jun</td>
</tr>
<tr>
<td><strong>Vacation</strong></td>
<td><strong>10 Jun – 12 Jul</strong></td>
<td><strong>13 Jun – 12 Jul</strong></td>
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<tr>
<td>Term 3</td>
<td>13 Jul – 21 Aug</td>
<td>13 Jul – 21 Aug</td>
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<td><strong>Vacation</strong></td>
<td><strong>22 Aug – 30 Aug</strong></td>
<td><strong>22 Aug – 30 Aug</strong></td>
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<tr>
<td>Term 4</td>
<td>31 Aug – 13 Nov</td>
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### BSc OCCUPATIONAL THERAPY

<table>
<thead>
<tr>
<th>Term</th>
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<td><strong>21 Mar – 29 Mar</strong></td>
<td><strong>21 Mar – 29 Mar</strong></td>
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<tr>
<td>Term 2</td>
<td>30 Mar - 09 Jun</td>
<td>30 Mar – 12 Jun</td>
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<tr>
<td><strong>Vacation</strong></td>
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### BSc PHYSIOTHERAPY

<table>
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<td><strong>21 Mar – 29 Mar</strong></td>
<td><strong>21 Mar – 29 Mar</strong></td>
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<tr>
<td>Term 2</td>
<td>30 Mar - 09 Jun</td>
<td>30 Mar – 12 Jun</td>
<td>30 Mar – 26 Jun</td>
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<tr>
<td><strong>Vacation</strong></td>
<td><strong>10 Jun – 12 Jul</strong></td>
<td><strong>13 Jun – 12 Jul</strong></td>
<td><strong>27 Jun – 19 Jul</strong></td>
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## ADVANCED DIPLOMA IN COSMETIC FORMULATION

<table>
<thead>
<tr>
<th>Term</th>
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<tbody>
<tr>
<td>Term 1</td>
<td>6 Jan – 14 Feb</td>
</tr>
<tr>
<td>Experiential Learning</td>
<td>17 Feb – 5 Jun</td>
</tr>
<tr>
<td>Term 2</td>
<td>8 Jun – 17 Jul</td>
</tr>
<tr>
<td><strong>Vacation</strong></td>
<td><strong>18 Jul – 26 Jul</strong></td>
</tr>
<tr>
<td>Experiential Learning</td>
<td>27 Jul – 20 Nov</td>
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## HIGHER CERTIFICATE IN DISABILITY STUDIES

<table>
<thead>
<tr>
<th>Term</th>
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<tbody>
<tr>
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<tr>
<td><strong>Vacation</strong></td>
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<tr>
<td>Term 2</td>
<td>30 Mar – 09 Jun</td>
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<tr>
<td><strong>Vacation</strong></td>
<td><strong>10 Jun – 12 Jul</strong></td>
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<tr>
<td>Term 3</td>
<td>13 Jul – 21 Aug</td>
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<tr>
<td><strong>Vacation</strong></td>
<td><strong>22 Aug – 30 Aug</strong></td>
</tr>
<tr>
<td>Term 4</td>
<td>31 Aug – 12 Nov</td>
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**Note:** The university reserves the right to change these dates. Before acting on any of the dates, please check the dates on the following site https://www.uct.ac.za/main/calendar/terms
Definitions of terms used in this handbook

Concession: Formal Senate approval exempting a student from complying with a required rule.

Curriculum: Prescribed course of study for a degree or diploma.

DP (Due Performance) requirement: Required minimum level of performance during the year to qualify a student to do an examination in a particular course.

Exemption and credit: Exemption from a course means that a student need not complete this course since he/she has passed an equivalent course before. He/she is then also given credit towards the programme for the course he/she passed before.

Health and Rehabilitation Sciences: Physiotherapy, Occupational Therapy, Audiology, Speech-Language Pathology, Disability Studies and Nursing.

HEQSF course level and NQF credits: The University is required to align its qualifications with the Higher Education Qualifications Sub-framework or HEQSF (which forms part of the National Qualifications Framework). In terms of the Framework, the following criteria apply:
- A Bachelor’s degree of four or more years is at HEQSF exit level 8 and must have a minimum of 480 credits. Minimum credits at HEQSF level 7: 120; minimum credits at HEQSF level 8: 96.
- Courses with content pitched at first year level are at HEQSF level 5; those at second year level at HEQSF level 6; those at third year level at HEQSF level 7; and those at fourth to six year at HEQSF level 8.
- NQF credits: 1 credit is 10 notional hours of learning.

ISCE: Integrated Structured Clinical Examination.

Joint staff: Staff employed jointly by the University and the Provincial Government of the Western Cape (PGWC).

OSCE: Objective Structured Clinical Examination.

OSPE: Objective Structured Practical Examination.

Convener: Academic staff member in charge of offering the degree or a course within the degree programme.

Readmission requirements: Requirements a student must meet to be permitted to continue with the programme. A student who fails to meet one or more of these requirements may be refused readmission.

Semester: A half-year.

Academic year of study: A suite of courses that must be completed at a specific academic level (e.g.: fourth year MBChB)

Calendar year: A year which starts in January and ends in December and may contain courses from more than one academic year.


Programme, plan and course codes

Each study programme has a code, indicating:
M = Faculty of Health Sciences
B = Bachelor's degree
+ a 3-digit number
Example: BSc Physiotherapy = MB004.

The undergraduate programme codes are as follows:
MB001  BSc (Medicine)
MB003  BSc Occupational Therapy
MB016  BSc Occupational Therapy Intervention Programme
MB004  BSc Physiotherapy
MB017  BSc Physiotherapy Intervention Programme
MB010  BSc Speech-Language Pathology
MB018  BSc Speech-Language Pathology Intervention Programme
MB011  BSc Audiology
MB019  BSc Audiology Intervention Programme
MB014  MBChB
MB020  MBChB Intervention Programme
MU002  Higher Certificate in Disability Practice
MU003  Advanced Diploma in Cosmetic Formulation Science

Note: This is to confirm that by virtue of inclusion on the Institution's DHET approved Programme and Qualification Mix (PQM), all qualifications included in this Handbook are accredited by the Council on Higher Education's permanent sub-committee - the Higher Education Quality Committee. Where a SAQA ID has not been provided, the qualification is awaiting the SAQA ID. The higher education sector has undergone an extensive alignment to the Higher Education Qualification sub-Framework and thus all institutions are awaiting the finalisation of the process and completion of the awarding of SAQA ID's. Affected qualifications are marked *
Please consult Handbook 2 or the HEQFs Programme and Qualification Mix (PQM) on the Institutional Planning Department's website, as approved by the Department of Higher Education and Training, for a list of all UCT's accredited qualifications.

Every course has a course title and a course code.
The structure is:
AAA1nnnS, where:
AAA is a 3 alpha group identifying the department.
I is a number identifying the year level at which the course is usually taken.
nnn is a three-character number that identifies the course uniquely.
S is a single alpha character, specifying the time period during which the course is offered.

Courses use one of the following possible suffixes, which refer to the following time periods:
F First Semester
S Second Semester
W Full Year – First and Second Semesters

[Note: The course extension does not denote the volume of work in the course or the relative weighting of the course in that year of study. The volume of work is determined by the NQF credit value of the course.]
GENERAL RULES FOR UNDERGRADUATE STUDENTS

[Note: All students must also familiarise themselves with the general rules for all students at UCT, contained in Handbook 3 of this series.]

Registration dates and first-year orientation, late registration and attendance of non-registered students

FGU1.1 All first-year students are required to attend all academic orientation activities. Failure to do so without permission may prevent entry to first semester courses.

FGU1.2 All students are required to renew their registration formally each year. No retrospective registration is allowed.

FGU1.3 All students are required to adhere to the registration dates set out in this Handbook and/or notices sent to students by the University administration in the year preceding registration/re-registration. Students who register late are charged a penalty fine.

FGU1.4 Except by permission of the Senate, a person who has not registered for the current year shall not be allowed to attend academic commitments and shall have no access to University facilities. Students who have not re-registered because they have fees outstanding may apply formally to the Deputy Vice-Chancellor concerned, via the Faculty Office, for a specified “grace period” (a grace period is granted only if there is documentary evidence that funds will become available) while they make arrangements to have their fees paid. In cases where students have been granted a grace period and allowed to attend despite not being registered, they may not be given results of any assessments.

Registration of students with professional bodies

FGU2.1 All undergraduate students are required to register with the Health Professions Council of South Africa upon admission to their respective degree programmes and are bound by that Council's regulations.

Final year MBChB students are registered as student interns with the Health Professions Council of South Africa and, upon their qualification, as interns, are bound by that Council's regulations. Qualified students are required to do two years' internship and one year's community service.

Upon qualifying in their final year of study, students in the BSc Audiology, BSc Speech-Language Pathology, BSc Occupational Therapy and BSc Physiotherapy degree programmes are required to register with the relevant professional board of the Health Professions Council of South Africa and do one year's community service before they may practise in their respective disciplines.

FGU2.2 From the second year of study, BSc Physiotherapy students are required to subscribe to the South African Society of Physiotherapy in order to obtain student professional malpractice insurance.

Hepatitis B immunisation

FGU3 It is compulsory for all students to have received a full course of Hepatitis B immunisation by the end of July of their first year of study. Students will not be permitted to register for the second year until they have submitted to the Faculty Office written proof that they have received a full course of such vaccination.
14 GENERAL RULES FOR UNDERGRADUATE STUDENTS

Rules for degrees and diplomas, and changes to courses and curricula

FGU4.1 Every candidate for a degree or diploma must attend and complete such qualifying courses or perform such work as may be specified in the rules for that degree, diploma or certificate. The University reserves the right to revise its rules from time to time, and any alteration of or addition to the rules for any degree or diploma shall, on the date specified in the notice of promulgation of such alteration or addition, become binding upon all candidates for that degree or diploma.

FGU4.2 The University has made every effort to ensure the accuracy of the information in its handbooks. However, it reserves the right at any time, if circumstances dictate, to:
   (a) make alterations or changes to any of the published details of the courses and curricula on offer; or
   (b) add to or withdraw any of the courses or curricula on offer.

[Note: The Health Professional Council of South Africa requires faculties of health sciences to monitor a health science student’s fitness to train or practise healthcare, and to report cases where a student is, following professional assessment, deemed unfit for practice.]

The following definitions apply:

Impaired: The Health Professions Council (HPCSA) defines impairment as “a condition which renders a practitioner incapable of practising a profession with reasonable skill and safety”.

Unprofessional conduct: The HPCSA defines unprofessional conduct as “improper or disgraceful or dishonourable or unworthy conduct or conduct which, when regard is taken to the profession of a person who is registered in terms of this Act, is improper or disgraceful or dishonourable or unworthy”.

In terms of the Medical Dental and Supplementary Health Service Professions Act, a student or practitioner is required to:

(a) report impairment in another student or practitioner to the Council if he or she were convinced that such other student or practitioner was impaired as defined in the Act;
(b) self-report his or her impairment to the Council if he or she was aware of his or her own impairment or has been publicly informed of being impaired or has been seriously advised by a colleague to act appropriately to obtain help in view of an alleged or established impairment.

The Faculty has a Student Development & Support Committee whose purpose in the first instance is to support students who experience health-related or other difficulties. The Committee strives to provide on-going support to students with medical (including mental health) problems. All possible attempts are made to assist students to get well before steps are taken to recommend a review of a student’s suspected or reported impairment. (See Process to Investigate Reported student Impairment or Unprofessional Conduct at the back of this handbook.)

All matters relating to student health are treated in the strictest confidence, and the number of academic or support staff who by nature of their work have access to confidential student information is limited to the absolute minimum.

The rules below need to be read within this context.
Ethical Norms, Professional Behaviour, Impairment & Fitness to Practise Healthcare

FGU5.1 Students registered for degrees involving clinical work or work with clients are expected to act in accordance with the ethical norms laid down by the Health Professions Council of South Africa. Students who are found guilty of unprofessional conduct after a formal process to investigate reported unprofessional behaviour may be required to terminate their registration in the Faculty.

Students who are found to be physically or otherwise impaired after a formal review impairment process has been undertaken may also be required to terminate their registration in the Faculty.

Where a student who qualifies for the award of the degree or certificate for which he/she is registered, or where a student, in the course of his/her studies, following professional assessment, is deemed unfit to practise healthcare, the Dean will report the outcome of such professional assessment to the relevant regulatory body and inform the student accordingly.

FGU5.2 A student who has taken formal leave of absence for a medical reason is required to apply to the UCT Fit for Study Panel to return. The student must ensure that his/her treating healthcare professional/s submit/s, to the Fit for Study Panel by a given date (usually four weeks) before the student’s intended date of return, a completed medical report (on a template provided by the Faculty’s Student Support Office).

Before the Fit for Study Panel takes a final decision about whether the student is fit to return, the Panel will – in cases where the student will be working with patients or clients on return - consult the Chair and/or Co-Chair of the Faculty’s Student Development and Support Committee (SDSC), with a view to establishing whether the student is fit to work with patients or clients. The SDSC may require the student to see a health professional of the Faculty’s choice before reporting back to the Fit for Study Panel. The Fit for Study Panel will then inform the student of the final decision. The SDSC may set additional conditions for return, which may include on-going monitoring of continued fitness for training/practice.

If the Fit for Study Panel decides that the student is not fit to return, the student must apply for an extension of leave of absence, following which the student must again apply via the Panel to return.

FGU5.3 A student who, in the course of training/clinical practice, is deemed by the SDSC (on advice of clinical teaching staff), to have become potentially unfit for continued training/practice (for example due to regular absence), may be required to undergo an assessment by a healthcare professional of the Faculty’s choice, within a stipulated time. If such healthcare professional confirms unfitness for training/practice, the student shall take leave of absence and to apply via the Fit for Study Panel to return.

FGU5.4 A student who is admitted to a treatment facility without having been able to apply for leave, or who is granted short leave of absence by the Faculty on application and for a medical reason, may not return to training/practice until the student’s treating healthcare professional has recommended to the SDSC in writing (on a template provided by the Faculty’s Student Support Office) that the student is fit to return.

The Faculty may, in addition, require the student to undergo an assessment by an independent healthcare professional of the Faculty’s choice about the student’s fitness to return. If the student is deemed not fit to return, the student shall take
formal leave of absence, after which he/she must apply to return via the Fit for Study Panel (as described in FGU5.2).

FGU5.5 A student who applies for a deferred examination for a second time in one year for medical reasons may be required to undergo an assessment by a healthcare professional of the Faculty’s choice and may be required, following consideration by the SDSC of the advice of such professional, to take leave of absence to address the medical problem. The student would then apply to the Fit for Study Panel to return in order to resume training.

FGU5.6 The University welcomes applications from applicants with special needs. However, there are some disabilities that would prevent someone from completing a particular health sciences curriculum (for example, someone who is deaf may not be able to hear a heartbeat through a stethoscope). For this reason applicants with disabilities are urged to communicate with the Faculty, via the University’s Disability Unit, to establish whether this would apply to them. The Faculty reserves the right to require an applicant (or an admitted student) to undergo a professional assessment to determine the extent and likely impact of a disability on his/her ability to meet the requirements of the curriculum, including such practical training and practice as is required in the health sciences discipline concerned. The University reserves the right to withdraw an offer to an applicant or cancel the registration of a student who fails to declare a disability that is found to be such as to make it impossible for him/her to meet the curriculum requirements in the health discipline concerned.

FGU5.7 Students are expected to behave professionally and dress appropriately. Professional behaviour includes attendance of all scheduled academic activities and respectful behaviour towards teachers, patients and colleagues.

[A guide to professional behaviour and appropriate dress in the hospitals and on the Health Sciences Faculty campus, as well as the processes that are followed to consider possible cases of impairment or of professional misconduct, are given at the back of this handbook.]

Assessment
FGU6.1 The performance of each student is subject to continuous assessment in all courses prescribed for the study programme. The student's academic standard of work performed during any course and, where relevant, the student’s attendance will be taken into account in determining the result obtained by him/her in that course and/or the student’s progression to the next year of study in the programme for which he/she is registered.

FGU6.2 The Senate may permit a student who fails a course if, in its judgement, he or she has performed adequately in the work of the course, to write a supplementary examination. The mark for the supplementary examination is usually added to the class (or year-) mark in order to determine the final result for the course.

Admission, progression, readmission and re-registration of candidates
FGU7.1 Applicants to this Faculty of Health Sciences who have been refused re-registration in this or another faculty will not generally be accepted.

FGU7.2 Except by permission of the Senate, a student shall not be admitted to register in the following academic year of study unless he/she has satisfactorily completed all the courses prescribed and satisfactorily performed all the work required for the preceding year.
[Notes:
(a) An academic year is a suite of courses that must be completed at a specific academic level (for example third year audiology or fourth year MBChB). A calendar year starts in January and ends in December. A calendar year may contain courses from more than one academic year. (If a student is repeating a course in years 4 to 6 of the MBChB programme, for example, a student repeating a course/s will register for the courses for the next academic year of study upon passing the course/s, i.e. within the same calendar year. A two-week interval is required from the time a student completes one academic year to commencing the subsequent academic year.)
(b) It is possible that a student can be registered for courses belonging to more than one academic year, but the student will officially be deemed to be a student of the lower year until all the courses for that year have been completed. - This provision is not applicable to students registered towards a MBChB qualification.
(c) In the case of the MBChB a student may not take courses from more than one academic year at the same time.]

FGU7.3 A student in any undergraduate degree who fails one or more courses prescribed in any year of study may be required to repeat not only the course/s failed but also one or more other courses already passed, to ensure maintenance of certain critical foundational skills and/or knowledge. (This does not apply to years 4 to 6 of the MBChB programme.) Students who are repeating courses which they have passed will be liable for fees for such courses.

FGU7.4 The Senate may refuse to admit an applicant to a study programme leading to registration as a health professional, or may cancel the registration of a student already admitted to such programme, or may refuse to readmit a student registered for such a programme, if he/she:  
(a) has not met the minimum admission or readmission requirements set for the course or qualification concerned which include, but are not limited to:  
i. failure to attend academic or clinical service commitments;
ii. failure to make sufficient academic progress;
(b) has been found guilty of unethical behaviour or unprofessional conduct;
(c) has, following professional assessment, been found unfit to practise healthcare.

FGU7.5 An undergraduate student who is repeating one or more courses in any academic year of study and who applies and is permitted to register for one or more courses from the next academic year of study in addition to the courses which he/she is repeating, will be subject to the readmission rules of the faculty in respect of the number of courses for which he/she is registered.

FGU7.6 Except by permission of the Senate, an undergraduate student who fails the same course twice, or who fails a course in a year in which he/she is repeating this or another course (where this is allowed), may be required to withdraw from the programme for which he/she is registered.

FGU7.7 A first-year undergraduate student who was admitted to an undergraduate programme in the Faculty subject to his/her obtaining conditional Matriculation Board exemption is required to submit proof of having applied for such exemption before he/she will be allowed to register for the second year of study.
FGU7.8 An undergraduate student who fails any course or courses may be permitted by the Senate to write a supplementary examination and/or may be required to spend additional clinical training time in one or more of the courses failed and repeat the examination/s in the course/s failed. Supplementary examinations are offered at the discretion of the Faculty Examinations Committee. A supplementary examination is not usually offered when:

(a) a student has failed a course with less than 48%;
(b) a student has failed more than one component of a course that has subcomponents (e.g. failing both Ambucare and Acute Care in MDN4011W Medicine); during the final examination;
(c) a student has performed poorly throughout the course, as opposed to only during the final examination;
(d) a student fails more than two courses;
(e) a student fails and has to repeat another course; or
(f) a student falls foul of the readmission rules for the programme for which she/he is registered.

Supplementary examinations are not offered in courses where this is specifically indicated (e.g. in some clinical courses).

FGU7.9 A student who does not meet a specified Due Performance requirement for a course that has such requirements falls the course and has to repeat it. The Faculty of Health Sciences offers professional degrees. These require students to be professional, which includes attending all commitments and submitting all work by due dates. DP requirements for many courses therefore include full attendance and submission of all work by due dates. This includes fully completed logbooks, assignments, tasks and portfolios in the clinical years of study by specified due dates. A student who is absent for any reason must immediately report the reason for his/her absence to the course convener, who has the discretion to decide whether the reason is adequate and the DP should be allowed. Where the approved absence exceeds a maximum time, to be determined by the convener, the student will have to make up the time missed or repeat part or all of the course, as decided by the Faculty Examinations Committee.

Examination dates and results

FGU8 It is the responsibility of students themselves to check via PeopleSoft self-service the decisions have been taken by the Faculty Examinations Board/s regarding their academic progress (for example whether they are required to write supplementary examinations or do extra clinical time). Students themselves are also responsible for checking with the respective departments the dates, times and venues of examinations and supplementary/deferred examinations (where this applies).

Fieldwork and insurance cover

FGU9.1 Undergraduate students receive clinical instruction in a variety of settings, which include community settings. The Faculty will take every precaution at its disposal to ensure the safety of students who are trained in community settings. While the University arranges professional indemnity and some personal accident insurance cover for all registered students, students who use their own vehicles to travel to fieldwork sites are advised to take out their own insurance cover for their vehicles. Unregistered students (except those on a formally approved grace period) are not covered by UCT insurance. Attendance in any academic activity without formal registration or grace period is done at the student’s own risk.
FGU9.2 In many cases, University transport is made available to enable groups of undergraduate students to attend fieldwork sites that are some distance from the Faculty's campus. Students who are required to attend fieldwork requirements for which Faculty transport is not available will be responsible for their own transport and transport costs to fieldwork sites. Students on financial aid or provincial bursaries may apply to the Undergraduate Student Support office for transport funding assistance, if required.

Withdrawal from a programme or course
FGU10.1 Students wishing to withdraw from a study programme for which they are registered must complete the required forms and submit these to the Faculty Office by the specified dates to avoid being charged the full year's fees (see Fees handbook).

FGU10.2 Students wishing to change their curriculum must submit a motivation to the curriculum advisor and the Dean who must approve any curriculum changes. Fee adjustments will be processed according to rules published in the Fees handbook.

Leave of absence and readmission after absence
FGU11.1 A student may apply for concession to miss classes from his/her studies on grounds of illness or bereavement, or in other exceptional cases at the discretion of the course conveners. To apply, he/she is required to submit a completed “Concession to miss classes” form, which can be collected from the Undergraduate Student Administration Office. Written evidence of the reason for the application must be provided.

Students are required to obtain permission for the concession to miss classes from all conveners of the courses for which they are registered, and the conveners will sign the form to indicate whether they approve or deny the application for concession to miss classes. The application form must also be counter signed by the overall Year Convener (in the case of MBChB) or the Head(s) of Department(s) of the course(s) from which he/she wishes to be granted a concession to miss classes. The completed form is then to be submitted to the Faculty Office.

This concession should in no way compromise the attendance requirements of the course. It is important to note that concession to miss classes, for whatever reason, is not automatically granted simply because a student has applied for it, and the application may be denied. Should a student choose to miss classes without permission being granted, there may be serious consequences for the student upon his/her return; this could include being refused permission to write the final examinations (i.e. being refused a Due Performance certificate).

[Please note:

- In the case of a medical condition or illness, a medical certificate must be obtained. This application is usually retrospective, but may be submitted in advance, e.g. if the student is having an operation.
- A medical certificate offered retrospectively will be accepted only if it was submitted on the day the student returns and if it is clear that the consultation with the doctor took place while the student was sick. A certificate in which a medical practitioner states that the student reports that he/she was ill is not acceptable.
- In the case of bereavement, a student is required to submit a copy of the death certificate upon his/her return from the funeral. This application is usually made beforehand.
• In the case of illness for only a portion of a day, or any other exceptional situations of very short duration, an explanatory letter may be accepted. This application is usually retrospective.

FGU11.2 A student in clinical years of an undergraduate degree who misses any training time (with permission) and is unable to make up the time may have to repeat the block (also see individual course requirements in this regard).

FGU11.3 Students may be granted long leave of absence for a specified period for medical or compassionate reasons, usually to the end of the academic year. A student who has been granted leave of absence until the end of the current year and fails to register in the following year will be required to reapply formally for admission to the programme. The student's academic record and period of absence will be taken into account in deciding whether the student may return. The Faculty Examinations Committee will decide a student's progression on the basis of his/her performance at the time he/she took leave of absence. (If, for example, a student has transgressed readmission rules at the time he/she went on leave of absence, the Committee may at its next meeting decide to exclude the student.)

FGU11.4 Save in exceptional circumstances, no leave of absence shall be granted in the last quarter of the year, or granted retrospectively, or granted more than once. (See General Rules handbook.)

FGU11.5 Unbroken registration is normally required to ensure that students' knowledge and/or clinical skills do not deteriorate. In the event that a student has interrupted his/her studies for more than a year, the Faculty, if it has decided that a student may return, may require the student to repeat one or more courses which the student may already have passed. Each case will be considered on merit, and the student's academic record and period of absence will be taken into account before a decision is made.
RULES AND CURRICULA FOR UNDERGRADUATE PROGRAMMES

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (MBChB)
[SAQA ID: 3195]

Conveners:
Dr P Wicomb (Department of Paediatrics) and Professor G Louw (Department of Human Biology)

Programme Code: MB014; MB020 (Intervention Programme)

This degree qualifies the holder thereof, after an internship, community service, and upon registration with the Health Professions Council of South Africa, to practise as a medical doctor. Students doing MBChB courses towards a Cuban degree may find outlines of courses designed specifically for them in the section entitled “Other courses offered” in this handbook.

Age limit
FBA1 The degree shall not be conferred until the student has attained the age of 21 years.

Curriculum
The curriculum for the MBChB aims to produce a competent, undifferentiated doctor with the attitudes, knowledge and skills to enter the healthcare field with confidence. This entails using a Primary Health Care approach with a balance between preventive, promotive, curative, palliative and rehabilitative healthcare. It promotes communication skills, teamwork, professional values and competent clinical practice, in the context of the primary, secondary and tertiary healthcare systems. The educational approach equips students with critical thinking and lifelong learning skills.

Duration of the degree programme
FBA2 The curriculum for the degree extends over at least six years of full-time study.

Curriculum outline

FBA3.1 First Year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
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<tbody>
<tr>
<td>PPH1001F</td>
<td>Becoming a Professional</td>
<td>15</td>
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<td>Becoming a Health Professional</td>
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<td>HUB1006F</td>
<td>Introduction to Integrated Health Sciences: Part I</td>
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<td>IBS1007S</td>
<td>Introduction to Integrated Health Sciences: Part II</td>
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<td>CEM1011F</td>
<td>Chemistry for Medical Students</td>
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Total credits for year 1 ............................................................ 167

FBA3.2 A student who fails a first or second semester course may be required to register for the Intervention Programme before continuing with the standard programme [see FBA5 for details about the Intervention Programme].

FBA3.3 Second Year

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**FBA3.4 Third Year**

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<td>Introduction to Clinical Practice</td>
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**FBA3.5 Fourth Year**

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<td>PRY4000W</td>
<td>Psychiatry</td>
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<td>Anaesthesia Part 1</td>
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<td>Pharmacology and Applied Therapeutics</td>
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<td>Neonatology</td>
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**FBA3.6 Fifth Year**

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<td>CHM5003W</td>
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<td>Urology</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total credits for year 5</strong></td>
<td><strong>210</strong></td>
<td></td>
</tr>
</tbody>
</table>

**FBA3.7 Sixth Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM6000W</td>
<td>Surgery (including Allied Disciplines)</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>MDN6000W</td>
<td>Medicine (including Allied Disciplines)</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>OBS6000W</td>
<td>Obstetrics</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>PED6000W</td>
<td>Paediatrics and Child Health</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>PPH6000W</td>
<td>Family Medicine and Palliative Medicine</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>PRY6000W</td>
<td>Psychiatry and Mental Health</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>AAE6000W</td>
<td>Anaesthesia Part II</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>PPH6001W</td>
<td>Long Elective</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>PPH6005W</td>
<td>Short Elective</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>
Programme Rules

FBA4 Clinical instruction may be given in (amongst others) the Groote Schuur, Somerset, Victoria, Mowbray Maternity, Red Cross War Memorial Children's and Princess Alice Orthopaedic Hospitals; and by the staff of the City Park Hospital, Valkenberg Hospital, day hospitals, municipal clinics, the Public Vaccination Station and at various fieldwork sites. Every student is expected to provide him/herself with the required instruments for clinical work.

Intervention Programme

FBA5.1 A student who fails PPH1001F, HUB1006F, PHY1025F and/or CEM1011F in the first semester of the first year of study may be transferred to the Intervention Programme (Parts 1 and 2).

FBA5.2 A student who fails HUB1007S or PPH1002S in the second semester of the first year of study may be transferred to the Intervention Programme (Part 2).

FBA5.3 A student who entered MBChB having done Chemistry and/or Physics before (usually in a Science degree), and having received an exemption in first semester MBChB for Chemistry and/or Physics, but who is transferred to IP, shall be required to do Chemistry and/or Physics in IP, regardless of how well he/she passed this before he/she enrolled for MBChB.

FBA5.4 A student entering IP who passed Chemistry and/or Physics in the first semester MBChB with 70% or more is exempt from repeating these in IP. A student who obtained 69% and less for Chemistry and/or Physics in first semester MBChB has to repeat these in the Intervention Programme.

FBA5.5 A student who failed PPH1001F Becoming a Professional in semester 1 and is required to enter the Intervention Programme will be required to repeat this course while registered for the Intervention Programme.

FBA5.6 The student in the Intervention Programme must register for, attend and pass the following courses:

### Intervention Programme Part 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE1001S</td>
<td>Fundamentals of Integrated Health Sciences Part I</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>CEM1111S</td>
<td>Chemistry for Medical Students</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

### Intervention Programme Part 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM1011X</td>
<td>Chemistry for Medical Students</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HSE1002F</td>
<td>Fundamentals of Integrated Health Sciences Part II</td>
<td>105</td>
<td>5</td>
</tr>
<tr>
<td>PHY1025F</td>
<td>Physics</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

Total credits for Intervention Programme: 141
Attendance, completion of coursework, progression rules and Due Performance requirements

FBA6.1 A student who has successfully completed the Intervention Programme (Parts 1 and 2 or Part 2, as the case may be) will proceed to the second semester of the first year of the standard curriculum. He/she will register for IBS1007S Introduction to Integrated Health Sciences Part II and PPH1002S Becoming a Health Professional. Once the student has passed these two second semester courses, he/she may proceed to the semester 3 second academic year of the standard curriculum.

FBA6.2 A student who has successfully completed the Intervention Programme and continues with the second semester of the standard curriculum may be exempted from repeating PPH1002S Becoming a Health Professional. No exemption may be possible from IBS1007S Integrated Health Systems Part II, regardless of how well he/she may have passed this course before.

FBA6.3 Students must meet the Due Performance (DP) requirements for a course that has such requirements in order to qualify to write the examination in that course. DP requirements reflect their importance in the development of professional attitudes. Continuous assessment, contribution to team-work and group-work, responsibility for self-learning and respect amongst fellows are key features of the curriculum that are assessed in DP requirements.

FBA6.4 Students are required to obtain an overall pass mark of at least 50% for each course and (unless otherwise specified) if the course includes more than one sub-discipline, to pass each of the subcomponents of the course with at least 50%.

FBA6.5 Apart from continuous assessment throughout each course, students are also assessed and/or examined at the end of a course or clinical block, and are required to undergo such written, clinical and oral examinations at the end of the year as may be prescribed.

FBA6.6 Failure of a course in second and third academic years of study:
(a) A student who fails any course in the second or third year MBChB may be required to repeat courses already passed.
(b) Except by permission of the Senate, students who repeat the Special Study Module (SSM) will be required to pass the repeat SSM in the same year in which they are repeating other third year courses. They will also be required to complete the repeat SSM in a discipline other than that of their original SSM.
(c) A student must pass PTY3009F, PPH3000F and HSE3000F in the first semester of third year of the MBCHB programme in order to proceed to register for MDN3001S in the second semester of third year. Failure of any of these three courses will prohibit continuation with MDN3001S.

FBA6.7 Failure of a course in fourth, fifth and final academic year of Study:
(Note: The courses for years 4, 5 and 6 of the MBChB programme are presented in modular blocks of equal length. A modular block may contain one or more courses, but all modular blocks within a particular AYOS are multiples of a single unit of time; for example, an AYOS based on an eight-week modular block system will accommodate courses of two (2), four (4) or eight (8) weeks. See Modular Block System for MBChB Years 4 to 6 under ‘Additional Information’.)
A student who fails any courses in the clinical years (years 4 to 6) may, at the discretion of the Faculty Examinations Committee:
(a) be required to repeat the course if the student has obtained less than 48% for the overall course mark;
(b) be required to do additional clinical training* and (subject to the guidelines under General Rule FGU7.8) undergo a supplementary examination if the student has obtained 48% or 49% for the course;
(c) (subject to the guidelines under General Rule FGU7.8) be offered a supplementary examination without additional training time, depending on the course requirements, provided the student obtained 48% or 49% for the course;
(d) be required to undergo additional training time and a supplementary exam if the student has failed a sub-component of the course with less than 48% but passed the course overall;
(e) be refused readmission if the student has fallen foul of the readmission rules under FBA7 below.

(Note: *Additional training and supplementary examination will take place before the start of the next academic year.)

FBA6.8 Students are required to complete and submit a logbook and portfolio for certain clinical year courses by a due date. Should these be incomplete, or should a student despite warning fail to complete the requisite amount of clinical work and/or coursework by the due date in the clinical years of study, the student may be refused access to the final examination in the course/s concerned.

FBA6.9 A student with a DPR (Due Performance Certificate Refused) or who is absent for an examination, fails and must repeat the course (subject to the progression rules for the programme.) (Note: in cases outside of a student’s control, for example the lack of availability of enough clinical cases in a particular month to enable the student to complete the minimum number of cases, a more flexible approach will be taken.)

Readmission Rules
FBA7.1 A student may be refused permission to renew their registration in the following semester, or may cancel their registration, if he/she:
(a) fails a course which the student is repeating;
(b) is in the Intervention Programme and fails any course in it;
(c) fails to complete the courses prescribed for first year by the end of their second year of study;
(d) fails to complete the courses prescribed for years 1 to 3 by the end of their fifth year of study;
(e) fails to complete the courses prescribed for years 1 to 4 by the end of their sixth year of study;
(f) in any one year fails more than half the number of courses for which he/she is registered;
(g) in an academic year in which he or she is repeating a course, fails any course;
(h) will be unable to complete the whole degree within eight years of study; (or, if the student has passed through the Intervention Programme, nine years of study);
(i) has been found guilty of unprofessional behaviour or has been found to be impaired.

FBA7.2 A student who is permitted to renew his/her registration despite not having met the requirements set out above may be required to follow a specific curriculum and may be set specific performance and readmission criteria determined by the Senate.
[Note: To be read in conjunction with the general rules for students in the front section of this handbook.]

**Distinction**

**FBA8** This degree may be awarded with distinction, with first class honours or with honours.

[See distinction rules at the back of this handbook.]

**Intercalated BMedSc Honours, Master’s and PhD studies for MBChB students**

**FBA9.1** MBChB students who wish to apply to interrupt their MBChB studies in order to do a BMedScHons specialising in Applied Anatomy, Biological Anthropology, Bioinformatics, Cell Biology, Physiology, Exercise Science, Human Genetics, Medical Biochemistry or Infectious Disease and Immunology, shall generally be required to have passed third year MBChB with an average of at least 70% in the following courses, with no less than 60% for any single course:

- (a) CEM1011F or CEM1111S and CEM1011X Chemistry for Medical Students (the latter two chemistry courses are taken by Intervention Programme students); and
- (b) PHY1025F Physics; and
- (c) HUB1006F and HUB1007S Introduction to Integrated Health Sciences I and II or (for Intervention Programme Students) HSE1001S and HSE1002F Fundamentals of Integrated Health Sciences I and II; and
- (d) HUB2017H, LAB2000S and LAB3009H Integrated Health Systems I and II; and
- (f) LAB3020W Molecular Medicine; or
- (g) to have passed third year MBChB as well as an approved third year level Bachelor of Science course with an average of at least 70%; and to have undergone a successful interview with a selection committee.

**FBA9.2** MBChB students doing an intercalated honours degree who wish to continue with MBChB after completing the honours programme shall be required, whilst registered for the BMedScHons programme concerned, to also register for and pass MDN3003W Introduction to Clinical Practice II.

**FBA9.3** On completing the honours programme, the student is permitted to return to the remaining years of the MBChB after graduating with the BMedScHons.

**FBA9.4** A student in the MBChB who holds a BMedScHons may be admitted concurrently to a research master’s in the clinical years of the MBChB on recommendation of the Faculty and with permission of the Senate. A student thus registered whose research dissertation is of sufficient scope may subsequently be permitted, on application and with special permission of the Senate, to upgrade to a PhD. The Faculty may require the student to spread the load of the clinical years of the MBChB whilst registered for research degree studies. The student will graduate with the MBChB when the requirements for that degree have been met, and continue thereafter with the PhD.
NELSON MANDELA FIDEL CASTRO MEDICAL TRAINING PROGRAMME (NMFCMTP)

Convener:
Dr N Gogela

Programme Code: MZ010

This programme is offered to South African students studying toward the Doctor of Medicine degree from the University of Villa Clara, Faculties of Medicine, in Cuba. Admission to the programme is limited to medical students who have been placed at the University of Cape Town by the South African National Department of Health (NDoH). This degree qualifies the holder thereof, after an internship, community service, and upon registration with the Health Professions Council of South Africa, to practise as a medical doctor.

Age limit
FBB1 The degree shall not be conferred until the student has attained the age of 21 years.

Curriculum
The curriculum for the Nelson Mandela Fidel Castro Medical Collaboration Training Programme focuses on a clinical-oriented problem and concomitant guideline-driven patient management approach. It aims to provide a platform to ensure that the student has the required attitudes, knowledge and skills to enter particularly the primary and secondary South African healthcare field with confidence.

Duration of the programme
The programme extends over three semesters (18 months) of full-time study.

FBB2 First Year Curriculum outline

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAE4003W</td>
<td>Anaesthesia for External Credit</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>MDN4017W</td>
<td>Medicine for External Credit</td>
<td>15</td>
<td>8</td>
</tr>
<tr>
<td>PED4017W</td>
<td>Neonatology for External Credit</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>OBS4006W</td>
<td>Obstetrics for External Credit</td>
<td>15</td>
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</tr>
<tr>
<td>PRY4001W</td>
<td>Psychiatry for External Credit</td>
<td>15</td>
<td>0</td>
</tr>
</tbody>
</table>

FBB3 Second Year Core Modules

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAE5000W</td>
<td>Anaesthesia for External Credit</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>PTH5012W</td>
<td>Forensic Medicine for External Credit</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>OBS5006W</td>
<td>Gynaecology for External Credit</td>
<td>27</td>
<td>8</td>
</tr>
<tr>
<td>MDN5000W</td>
<td>Medicine for External Credit</td>
<td>24</td>
<td>8</td>
</tr>
<tr>
<td>OBS5007W</td>
<td>Obstetrics for External Credit</td>
<td>41</td>
<td>8</td>
</tr>
<tr>
<td>CHM5005W</td>
<td>Orthopaedic Surgery for External Credit</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>CHM5004W</td>
<td>General Care of the Child for External Credit</td>
<td>40</td>
<td>8</td>
</tr>
<tr>
<td>PRY5001W</td>
<td>Psychiatry and Mental Health for External Credit</td>
<td>30</td>
<td>8</td>
</tr>
<tr>
<td>CHM5011W</td>
<td>Surgery for External Credit</td>
<td>19</td>
<td>8</td>
</tr>
</tbody>
</table>

Clinical instruction for NMFCMTP students

FBB4 Clinical instruction may be given in (amongst others) the Groote Schuur, Somerset, Victoria, Mowbray Maternity, Red Cross War Memorial Children's and Princess Alice Orthopaedic Hospitals; and by the staff of the City Park Hospital, Valkenberg Hospital, day hospitals, municipal clinics, the Public Vaccination Station and at various fieldwork sites.
Attendance, completion of coursework, progression rules and Due Performance requirements

Note: The external credit courses are aligned with the courses in years 4, 5 and 6 of the MBChB programme and are presented in modular blocks of equal length. A modular block may contain one or more courses, but all modular blocks within a particular semester are multiples of a single unit of time; for example, a semester based on an eight-week modular block system will accommodate courses of two (2), four (4) or eight (8) weeks. See Modular Block System for MBChB Years 4 to 6 under ‘Additional Information’.

FBB5.1 A student who has successfully completed Semester 1 of the programme will proceed to Semesters 2 and 3.

FBB5.2 Students must meet the Due Performance (DP) requirements for a course that has such requirements in order to qualify to write the examination in that course. DP requirements reflect their importance in the development of professional attitudes. Continuous assessment, contribution to team-work and group-work, responsibility for self-learning and respect amongst fellows are key features of the curriculum that are assessed in DP requirements. A student with a DPR (Due Performance Certificate Refused) result will fail the course and will be required to repeat it (subject to approval of the student’s progression by the National Department of Health).

(Note: in cases outside of a student’s control, for example, the lack of availability of enough clinical cases in a particular month to enable the student to complete the minimum number of cases, a more flexible approach will be taken.)

FBB5.3 Students are required to obtain an overall pass mark of at least 50% for each course and (unless otherwise specified) if the course includes more than one sub-discipline, to pass each of the subcomponents of the course with at least 50%.

FBB5.4 Apart from continuous assessment throughout each course, students are also assessed and/or examined at the end of a course or clinical block.

FBB5.5 A student who fails any course in semester 1 may be required to repeat that course before being permitted to proceed to semesters 2 and 3.

FBB5.6 A student who fails any course in semesters 2 and 3 will not be permitted to write the final examination required for the completion of the Doctor of Medicine degree of the University of Villa Clara.

FBB5.7 A student who fails any courses in semesters 1 to 3 may, at the discretion of the Faculty Examinations Committee:

(a) be required to repeat the course if the student has obtained less than 48% for the overall course mark;
(b) be required to do additional clinical training* and (subject to the guidelines under General Rule FGU7.8) undergo a supplementary examination if the student has obtained 48% or 49% for the course;
(c) (subject to the guidelines under General Rule FGU7.8) be offered a supplementary examination without additional training time, depending on the course requirements, provided the student obtained 48% or 49% for the course; or
(d) be required to undergo additional training time and a supplementary exam if the student has failed a sub-component of the course with less than 48% but has passed the course overall.
Additional training and supplementary examination(s) will take place before the start of the next semester.

FBB5.8 Students are required to complete and submit a logbook, assignments, tasks and/or a portfolio for certain clinical year courses by a due date. Should these be incomplete, or should a student fail to complete the requisite amount of clinical work and/or coursework by the due date in the clinical semester of study, the student may be refused access to the final examination in the course(s) concerned.

FBB5.9 The Doctor of Medicine degree is not conferred by the University of Cape Town (UCT) but by the University of Villa Clara. UCT does not implement the readmission rules applicable to its own programmes to the NMFCMTP. The final results of all students registered on the NMFCMTP will be submitted to the NDoH at the end of every semester. A student may not continue studying on the NMFCMTP if the NDOH determines that the student is not eligible to do so. Should the NDoH require a recommendation from UCT regarding the progression of any student on the NMFCMTP, such recommendations:
(a) fails a course which has been repeated;
(b) fails to complete the courses prescribed for semester 1 within 12 months of the commencement of the programme;
(c) fails to complete the courses prescribed for semesters 2 and 3 within 24 months of the commencement of the programme;
(d) in any one semester fails more than half the course load for which the student is registered;
(e) in a semester in which the student is repeating a course, fails any course;
(f) will be unable to complete the whole programme within 24 months of the commencement of the programme; or
(g) has been found guilty of unprofessional behaviour or has been found to be impaired.

A student who is permitted to renew his/her registration despite not having met the requirements set out above may be required to follow a specific curriculum and may be set specific performance and readmission criteria determined by the NDoH. Appeals for readmission to the NMFCMTP programme are not considered by UCT and must be referred to the NDoH for consideration.
BACHELOR OF SCIENCE IN MEDICINE (BSC MEDICINE)
[SAQA Registration awaited]

Convener:
Professor AA Katz

Programme Code: MB001
Plan code: DOM02

Eligibility
FBC1 This programme is available only to MBChB students currently registered at the University of Cape Town. A candidate who has successfully completed at least the second year of the MBChB curriculum (MB014 or MB020) at this University may, upon application, be allowed to register for this programme.

Duration of the degree programme
FBC2 The curriculum for the degree programme extends over one academic year of full-time study.

Curriculum
FBC3.1 The BSc (Medicine) shall have at least 360 credits, of which a minimum of 120 credits shall be at HEQSF level 7 (third year level) and a maximum of 96 credits at HEQSF level 5 (first year level). Credit may be given towards the BSc (Medicine) for specific MBChB courses passed (see FBC3.2) and for specific additional courses taken (see FBC3.3).

FBC3.2 MBChB courses for which credit may be given towards BSc (Medicine):

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUB1006F</td>
<td>Introduction to Integrated Health Sciences Part I</td>
<td>30</td>
<td>5</td>
</tr>
<tr>
<td>IBS1007S</td>
<td>Introduction to Integrated Health Sciences Part II or</td>
<td>35</td>
<td>5</td>
</tr>
<tr>
<td>HSE1002F</td>
<td>Fundamentals of Integrated Health Sciences Pt II</td>
<td>105</td>
<td>5</td>
</tr>
<tr>
<td>CEM1011F</td>
<td>Chemistry for Medical Students or</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>CEM1011X</td>
<td>Chemistry for Medical Students (IP course)</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PHY1025F</td>
<td>Physics</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PTY2000S</td>
<td>Integrated Health Systems Part IB</td>
<td>35</td>
<td>6</td>
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<td>HUB2017H</td>
<td>Integrated Health Systems Part IA</td>
<td>57</td>
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<td>IBS2001S</td>
<td>Special Study Module *</td>
<td>16</td>
<td>6</td>
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<tr>
<td>PPH2000W</td>
<td>Becoming a Doctor Part 1A</td>
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<td>6</td>
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<tr>
<td>SLL2002H</td>
<td>Becoming a Doctor Part 1B (languages)</td>
<td>18</td>
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<tr>
<td>PTY3009F</td>
<td>Integrated Health Systems Part II</td>
<td>59</td>
<td>7</td>
</tr>
</tbody>
</table>


FBC3.3 In addition, the student shall enroll for the following courses, with the proviso that the total number of credits (MBChB and other) meets the criterion given in FBC3.1 and provided the entry criteria for the courses below are met.

[Note: There is a limit on the number of students that may enter some of the courses below and admission is competitive.]
**Courses offered by Departments in the Faculty of Health Sciences:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUB3006F</td>
<td>Applied Human Biology</td>
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<tr>
<td>HUB3007S</td>
<td>Human Neurosciences</td>
<td>36</td>
<td>7</td>
</tr>
<tr>
<td>IBS3020W</td>
<td>Molecular Medicine</td>
<td>72</td>
<td>7</td>
</tr>
<tr>
<td>AHS3078H</td>
<td>Research Methods and Biostatistics I</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

[*Note: MBChB students who obtained 60% in PTY3009F Integrated Health Systems Part 2 may, at the discretion of the Dean, be granted exemption from one of the science-based level 7 courses.]*

**Progression and minimum requirement for re-registration**

FBC4 Except by permission of the Senate, a candidate who has not satisfactorily completed all of the courses prescribed for the degree within one year of full-time study shall not be permitted to renew his/her registration for the degree.

**Distinction**

FBC5 The degree may be awarded with distinction (75% to 100%).
BACHELOR OF SCIENCE IN AUDIOLOGY AND BACHELOR OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY

[SAQA registration number: 12105 (Audiology); 12107 (Speech-Language Pathology)]

Conveners:
L Petersen (Audiology) and V Norman (Speech-Language Pathology)

[BSc Audiology programme code: MB011 or MB019 (Intervention Programme).
Plan code: MB011AHS02.]
[BSc Speech-Language Pathology programme code: MB010 or MB018 (Intervention Programme).
Plan code: MB010AHS01.]

These two degree programmes lead to the registration of graduates with the Health Professions Council of South Africa as speech-language therapists or audiologists. Graduates are required by the HPCSA to complete one year of community service before they may practise their professions in South Africa. Speech-language Pathology is the discipline addressing the assessment and management of individuals who have difficulties with speech (including disorders of articulation, voice and fluency) language, communication and swallowing. Audiology is the discipline dealing with the assessment and management of hearing and balance, hearing impairment and deafness. Speech-language therapists and audiologists work with people of all ages. These professions require background knowledge of biological, physical, psychological and behavioural sciences, which are all part of the learning programme. The field offers wide clinical and research opportunities.

Duration of programme
FBD1 Each curriculum extends over four years of full-time study. Students who pass through the Intervention Programme will take an additional year to complete the degree.

Curriculum

FBD2.1 First year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPH1001F</td>
<td>Becoming a Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>PPH1002S</td>
<td>Becoming a Health Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>AHS1003F</td>
<td>Speech and Hearing Sciences</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1*</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1005S</td>
<td>Introduction to Psychology Part 2*</td>
<td>18</td>
<td>5</td>
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<tr>
<td>HUB1014S</td>
<td>Anatomy for Communication Sciences</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>AHS1025S</td>
<td>Early Intervention</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1042F</td>
<td>Human Communication Development</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AXL1300F</td>
<td>Introduction to Language Studies</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

Course for Audiology students:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS1045S</td>
<td>Basis of Hearing and Balance</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

Course for Speech-Language Pathology students:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXL1301S</td>
<td>Introduction to Sociolinguistics</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

Total NQF credits for year 1 ........................................... 176

Note: *Some students may be required to do the following additional Psychology courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>PSY1007S</td>
<td>Introduction to Psychology Part 2+</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>
FBD2.2 A student who fails one or more of the following courses in the first semester may be required to enter the Intervention Programme Parts 1 and 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS1003F</td>
<td>Speech and Hearing Science</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1042F</td>
<td>Human Communication Development</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AXL1300F</td>
<td>Introduction to Language Studies</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

FBD2.3 A student who fails one or more of the following courses at the end of semester 2 of the standard curriculum may be required to enter the Intervention Programme Part 2:

In the case of BSc Audiology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1005S</td>
<td>Introduction to Psychology Part 2</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1025S</td>
<td>Early Intervention</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1045S</td>
<td>Basis of Hearing and Balance</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

In the case of BSc Speech-Language Pathology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1005S</td>
<td>Introduction to Psychology Part 2</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1025S</td>
<td>Early Intervention</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AXL1301S</td>
<td>Introduction to Sociolinguistics</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

[See rule FBD3 below for the Intervention Programme curriculum. The Intervention Programme starts in July and first year ends in June of the following year, after which the student joins the second semester of the standard first year curriculum.]

FBD2.4 Second year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL11028H</td>
<td>Xhosa for Health and Rehabilitation Sciences* or</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>SL11048H</td>
<td>Afrikaans for Health and Rehabilitation Sciences*</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY2015F</td>
<td>Research in Psychology I</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>PSY2014S</td>
<td>Cognition and Neuroscience</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>AHS2047S</td>
<td>Paediatric Rehabilitative Audiology</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>AHS2106F</td>
<td>Child Language</td>
<td>21</td>
<td>6</td>
</tr>
</tbody>
</table>

Courses for Audiology students:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS2046F</td>
<td>Diagnostic Audiology</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>AHS2110W</td>
<td>Clinical Audiology I</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>AHS2111S</td>
<td>Diagnostic Audiology in Special Populations</td>
<td>15</td>
<td>6</td>
</tr>
</tbody>
</table>

Courses for Speech-Language Pathology students:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS2107F</td>
<td>Child Speech</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>AHS2108W</td>
<td>Clinical Speech Therapy I</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>AHS2109S</td>
<td>School-based Interventions</td>
<td>21</td>
<td>6</td>
</tr>
</tbody>
</table>

Total NQF credits for year 2 ........................................... 162/168

[Students who speak Xhosa as home language will be required to register for Afrikaans; those who speak English or Afrikaans as a home language will register for Xhosa.]
### FBD2.5 Third year

**Common courses for Speech-Language Pathology and Audiology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS1054W</td>
<td>South African Sign Language</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>AHS3078H</td>
<td>Research Methods and Biostatistics I</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

**Courses for Audiology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS3008H</td>
<td>Clinical Audiology II</td>
<td>30</td>
<td>7</td>
</tr>
<tr>
<td>AHS3062F</td>
<td>Rehabilitation Technology</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3065S</td>
<td>Adult Rehabilitative Audiology</td>
<td>18</td>
<td>7</td>
</tr>
<tr>
<td>AHS3075S</td>
<td>OAEs and Electrophysiology</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3104S</td>
<td>Vestibular Management</td>
<td>15</td>
<td>7</td>
</tr>
<tr>
<td>AHS3105F</td>
<td>Public Health Audiology</td>
<td>15</td>
<td>7</td>
</tr>
</tbody>
</table>

**Courses for Speech-Language Pathology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS3004H</td>
<td>Clinical Speech Therapy II</td>
<td>30</td>
<td>7</td>
</tr>
<tr>
<td>AHS3071F</td>
<td>Acquired Neurogenic Language Disorders</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3072S</td>
<td>Paediatric Dysphagia and Motor Speech</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3073F</td>
<td>Adult Dysphagia and Motor Speech</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3102S</td>
<td>Child Language II</td>
<td>15</td>
<td>7</td>
</tr>
<tr>
<td>AHS3103F</td>
<td>Voice</td>
<td>15</td>
<td>7</td>
</tr>
</tbody>
</table>

**Total NQF credits for year 3** ............................................ 140/144

### FBD2.6 Fourth year

**Common courses for Speech-Language Pathology and Audiology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS4000W</td>
<td>Research Report</td>
<td>30</td>
<td>8</td>
</tr>
<tr>
<td>AHS4067S</td>
<td>Seminars in Communication Sciences</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

**Courses for Audiology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS4008H</td>
<td>Clinical Audiology IIIA</td>
<td>45</td>
<td>8</td>
</tr>
<tr>
<td>AHS4009H</td>
<td>Clinical Audiology IIIB</td>
<td>45</td>
<td>8</td>
</tr>
</tbody>
</table>

**Courses for Speech-Language Pathology students:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS4005H</td>
<td>Clinical Speech Therapy IIIA</td>
<td>45</td>
<td>8</td>
</tr>
<tr>
<td>AHS4006H</td>
<td>Clinical Speech Therapy IIIB</td>
<td>45</td>
<td>8</td>
</tr>
</tbody>
</table>

**Total NQF credits for year 4** ............................................ 124

**Total NQF credits for programme** ............................................ 602/612

**Note:** If PSY1006F & PSY1007S are added total NQF Credits is 622/632

### Intervention programme

#### FBD3.1

The following courses must be satisfactorily completed during the Intervention Programme by a student who enters the Intervention Programme after semester 1 of the standard curriculum:

**Intervention Programme Part 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE1003S</td>
<td>Preparation for Entry-level Psychology for Health &amp; Rehab Part</td>
<td>118</td>
<td>5</td>
</tr>
<tr>
<td>HSE1004S</td>
<td>Fundamentals of Speech and Hearing Sciences</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HSE1005S</td>
<td>Foundational Concepts in Human Communication Development</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AXL1302S</td>
<td>Linguistics Foundation</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>
A student who fails HSE1003S or AXL1302S or HSE1004S or HSE1005S will be required to register for and complete a summer term course and to rewrite the examination at the end of this course (in December of the year in which he/she failed).

A student entering IP who failed PSY1004F or PSY1006F in the first semester of the standard first year programme will be required not only to pass HSE1003S but also to register for PSY1006F in IP2.

The following courses must be satisfactorily completed during the Intervention Programme by a student who has completed the Intervention Programme Part 1 or who is required to enter the Intervention Programme after semester 2 of the standard curriculum:

**Intervention Programme Part 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+*</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>HSE1006F</td>
<td>Foundational Concepts in Early Intervention</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HSE1007F</td>
<td>Foundations of Hearing and Balance</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AXL1303F</td>
<td>Sociolinguistics Foundation</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><em>Note: For students who failed PSY1006F or PSY1004F in the first semester of first year.</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total NQF credits for IP .................................................. 154

Once a student has satisfactorily completed all the prescribed courses of the Intervention Programme, he/she may proceed to semester 2 of the standard first year curriculum.

**Attendance and DP (Due Performance) requirements**

(a) Attendance at all academic activities (e.g. lectures, tutorials) is required.

(b) A minimum of 80% attendance is required at clinics. If this attendance requirement is not met, the student may be required to repeat the course or block (clinical rotation).

(c) Absence from clinics or other commitments on medical grounds requires a medical certificate. Validity of absence on grounds of personal or other problems will be considered on an individual basis by the staff of the Division.

(d) All coursework must be completed.

(e) Students who do not demonstrate professional conduct will receive a written warning. Thereafter, violations of professional conduct will result in DP being refused for the course in question.

**Progression**

Students may not proceed to courses which have prerequisites until they have successfully completed the prerequisite courses (see individual course outlines in the pages that follow).

A student is required to pass AHS2106F Child Language and AHS2107F Child Speech in order to continue the second semester of the second year clinical practical course AHS2108W Clinical Speech Therapy I. If a student should fail either course, he/she will have to deregister from the clinical course AHS2108W at the start of the second semester. The student will continue with the clinical course AHS2108W following successful completion of AHS2107F and/or AHS2106F in the following year, if permitted to repeat these courses.
FBD5.3 A student is required to pass AHS2046F Diagnostic Audiology in order to continue the second semester of the second year clinical practical course AHS2110W Clinical Audiology. If a student should fail the course, he/she will have to deregister from the clinical course AHS2110W at the start of the second semester. The student will continue with the clinical course AHS2110W following successful completion of AHS2046F in the following year, if permitted to repeat these courses.

FBD5.4 A student is required to pass AHS3071F Acquired Neurogenic Language Disorders and AHS3073F Adult Dysphagia and Motor Speech in order to continue with the second semester of the third year clinical practical course AHS3004H Clinical Speech Therapy II. If a student should fail these courses, he/she will have to deregister from the clinical course AHS3004H. The student will then continue with the programme following successful completion of AHS3071F and/or AHS3073F in the following year. Students will retain credit for the clinical hours obtained in the first semester of the clinical course.

FBD5.5 A student is required to pass AHS3062F Rehabilitation Technology in order to continue with second semester of AHS3008H Clinical Audiology II. If a student fails AHS3062F, he/she will have to deregister from the clinical course AHS3008H. The student will then continue with the programme following successful completion of AHS3062F in the following year. Students will retain credit for the clinical hours obtained in the first semester of AHS3008H.

FBD5.6 If a student is registered only for theoretical modules for any semester, he/she may continue to be involved in clinical work under the direction of the clinical co-ordinator, and receive credit for additional clinical hours.

FBD5.7 First year students are expected to complete independently organised electives requiring observation of clinical work in a variety of settings, and professional activities as per programme requirements. Total elective hours are 20, to be completed prior to registration for the second year of study.

FBD5.8 In the fourth year clinical courses AHS4005H Clinical Speech Therapy IIIA, AHS4006H Clinical Speech Therapy IIIB, AHS4008H Clinical Audiology IIIA and AHS4009H Clinical Audiology IIIB, students are required to pass the final qualifying examinations in order to pass the course (i.e. obtain a minimum mark of 50% for each FQE).

If a student fails any section of the examination in each course, the student will fail the course, and a maximum mark of 49% will be awarded. In the first semester: If a student fails the final qualifying examination in a course in June, and the final examination mark is above 45%, he/she may be offered a re-assessment of the section that has been failed. In the second semester: If the student fails the November final qualifying examination in a course, and the final examination mark is above 45%, the student may be offered a re-examination.

FBD5.9 In the fourth year clinical course: AHS4005H, AHS4006H, AHS4008H and AHS4009H, the student must pass each clinic of each block (obtain a minimum mark of 50% for each clinic). If the student fails any clinic, he/she will be required to repeat and pass the clinic.

FBD5.10 Following a supplementary examination, the final mark in a course will be determined as follows: coursework: 60%; supplementary examination mark: 40%.
FBD5.11 In the fourth year clinical courses AHS4005H Clinical Speech Therapy IIIA,
AHS4006H Clinical Speech Therapy IIIB, AHS4008W Clinical Audiology IIIA
and AHS4009H Clinical Audiology IIIB, students are required to pass each clinic in
order to qualify for the final examinations.

FBD5.12 In the third year clinical courses, AHS3004H Clinical Speech Therapy II and
AHS3008H Clinical Audiology II, students are required to pass each clinic block in
order to progress to fourth year clinics.

FBD5.13 If a student fails AHS3102S or AHS3072S, the student may be permitted to
participate in certain clinical blocks in AHS4005H which do not require the
theoretical knowledge of these courses. The student will need to successfully
repeat AHS3102S or AHS3072S before entering AHS4006H.

FBD5.14 If a student fails AHS3065S AHS3075S, or AHS3104S, the student may be
permitted to participate in certain clinical blocks in AHS4008H which do not
require the theoretical knowledge of these courses. The student will need to
successfully repeat AHS3065S AHS3075S, or AHS3104S before entering
AHS4009H.

Readmission rules (standard programme and Intervention Programme)
FBD6.1 Except by permission of the Senate, a student will not be permitted to renew
his/her registration for the degree, or may have his/her registration cancelled:
(a) if he/she is in the Intervention Programme and fails any course in it (no
supplementary examinations are allowed for IP2 courses but students
who fail an IP1 course may be allowed to repeat the course as a summer
term course in the same year and write another examination. If the
student fails this examination, he/she may be refused readmission);
(b) if he/she fails a course which he/she is repeating;
(c) unless he/she, from the second year of study, successfully completes in
each year’s examination cycle half or more of the courses for which
he/she is registered in that year (an examination cycle being an
examination plus a supplementary or deferred examination, if awarded);
(d) unless he/she successfully completes all the prescribed courses for any
single year in two years;
(e) if he/she is unable to complete the standard programme in six years or if
the student passed through the Intervention Programme - seven years; or
(f) if he/she is found guilty of unprofessional behaviour or deemed to be
impaired.

FBD6.2 A student who has not fulfilled the required number of clinical hours will not be
permitted to graduate.

[Note: These rules must be read in conjunction with the general rules in the front section of this
handbook.]

Distinction
FBD7 The degree may be awarded with distinction (average of 75% or above for all
courses from first to final year of study).
BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY
[SAQA ID: 3497]

Convener:
Dr P Gretschel (Department of Health and Rehabilitation Sciences)

Programme code: MB003 or MB016 (Intervention Programme). Plan code: MB003AHS09.

Occupational Therapy is an applied discipline dedicated to the study of occupation and its relevance to health and well-being. The purpose of this programme is to educate students to become professionals who can help to change people's lives by facilitating their engagement in occupations that are appropriate to their environment, background and health needs. Lecturers are committed to preparing graduates to make a contribution to the practice needs in our country. Students are encouraged and enabled to become self-directed and life-long learners. The profession requires mature people with integrity who are creative and innovative thinkers, good communicators and committed to service.

Students receive instruction in English, but Xhosa and Afrikaans will increasingly be used alongside English to enable students who are not familiar with an African language to communicate with persons who are unable to express themselves in English.

The BSc in Occupational Therapy leads to registration with the Health Professions Council of South Africa (HPCSA) as an occupational therapist.

Duration of programme
FBE1 The degree programme extends over either four or (for students passing through the Intervention Programme) five years of full-time study.

Curriculum

FBE2.1 First year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPH1001F</td>
<td>Becoming a Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>PPH1002S</td>
<td>Becoming a Health Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1 *</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1005S</td>
<td>Introduction to Psychology Part 2 *</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1019F</td>
<td>Anatomy and Physiology IA</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1020S</td>
<td>Anatomy and Physiology IB</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1032S</td>
<td>Occupational Perspectives on Health and Well-being</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>AHS1035F</td>
<td>Human Occupation and Development</td>
<td>22</td>
<td>5</td>
</tr>
</tbody>
</table>

Total NQF credits in first year: 144

Note: *Some students may be required to do the following additional Psychology courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>PSY1007S</td>
<td>Introduction to Psychology Part 2+</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

FBE2.2 A student who fails one or more of the following courses at the end of Semester 1 may be required to enter the Intervention Programme Parts 1 and 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1 or</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 2</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>HUB1019F</td>
<td>Anatomy and Physiology IA</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1035F</td>
<td>Human Occupation and Development</td>
<td>22</td>
<td>5</td>
</tr>
</tbody>
</table>
FBE2.3 A student who fails one or more of the following courses at the end of Semester 2 of the standard curriculum may be required to enter the Interventions Programme Part 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1005S</td>
<td>Introduction to Psychology Part 2</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1020S</td>
<td>Anatomy and Physiology IB</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS1032S</td>
<td>Occupational Perspectives on Health and Well-being</td>
<td>20</td>
<td>5</td>
</tr>
</tbody>
</table>

[See rule FBE3 below for the Intervention Programme curriculum. The Intervention Programme starts in July and ends in June of the following year, after which the student joins the second semester of the standard curriculum.]

FBE2.4 Second year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS2002W</td>
<td>Clinical Sciences I</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td>PRY2002W</td>
<td>Psychiatry for Occupational Therapists</td>
<td>14</td>
<td>6</td>
</tr>
<tr>
<td>PSY2013F</td>
<td>Social and Developmental Psychology</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>HUB2015W</td>
<td>Anatomy &amp; Physiology II for Health &amp; Rehabilitation Sciences</td>
<td>36</td>
<td>6</td>
</tr>
<tr>
<td>AHS2043W</td>
<td>Occupational Therapy II</td>
<td>36</td>
<td>6</td>
</tr>
</tbody>
</table>

Total NQF credits in second year: .............................................. 123

FBE2.5 Third year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLL1028H</td>
<td>Xhosa for Health and Rehabilitation Sciences*</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>SLL1048H</td>
<td>Afrikaans for Health and Rehabilitation Sciences *</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS3078H</td>
<td>Research Methods and Biostatistics I</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>AHS3107W</td>
<td>Occupational Therapy Theory and Practice in Physical Health</td>
<td>38</td>
<td>7</td>
</tr>
<tr>
<td>AHS3108W</td>
<td>Occupational Therapy Theory and Practice in Mental Health</td>
<td>38</td>
<td>7</td>
</tr>
<tr>
<td>AHS3113W</td>
<td>Foundation Theory for Occupational Therapy Practice I</td>
<td>26</td>
<td>7</td>
</tr>
</tbody>
</table>

Total NQF credits in third year: ................................................ 148

FBE2.6 Fourth year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS4119W</td>
<td>Occupational Therapy Research and Practice Management</td>
<td>48</td>
<td>8</td>
</tr>
<tr>
<td>AHS4120W</td>
<td>Foundation Theory for Occupational Therapy Practice II</td>
<td>48</td>
<td>8</td>
</tr>
<tr>
<td>AHS4121W</td>
<td>Occupational Therapy Practice and Service Learning</td>
<td>48</td>
<td>8</td>
</tr>
</tbody>
</table>

Total NQF credits in fourth year: .............................................. 144

Total NQF credits for programme: .............................................. 559

Note: If PSY1006F & PSY1007S are added, total NQF credits for programme is 603

[*Note: A student may be exempted from doing Afrikaans or Xhosa in the third year under the following conditions:

a) the language concerned was taken as a home language in the final school year. A copy of the NSC certificate stating the first language status is required as evidence; or

b) the student is proficient in speaking the language concerned. The student will be given an oral during which his/her proficiency will be assessed.]

Intervention programme

FBE3.1 The following courses must be satisfactorily completed during the Intervention Programme by a student that enters the Intervention Programme after semester 1:
### Intervention Programme Part 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE1008S</td>
<td>Fundamentals of Anatomy and Physiology IA</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>HSE1003S</td>
<td>Preparation for Entry-level Psychology for Health &amp; Rehab Part I18</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>HSE1010S</td>
<td>Fundamentals of Human Occupation and Development IA</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

*Note: Credits for IP1 courses, and final assessments of IP courses, are included in those of IP2 courses.*

FBE3.2 A student who fails HSE1003S and has met the DP requirement for this course may be permitted to repeat the course during the summer term. If he/she again fails during the summer term, he/she may be refused readmission.

FBE3.3 A student entering IP who failed PSY1004F or PSY1006F in the first semester of the standard first year programme will be required to register for all IP1 courses including HSE1003S.

FBE3.4 The following courses must be satisfactorily completed during the Intervention Programme by a student who has completed the Intervention Programme Part 1 or who is required to enter the Intervention Programme after semester 2 of the standard curriculum:

### Intervention Programme Part 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+*</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>HSE1009F</td>
<td>Fundamentals of Anatomy and Physiology IB</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>HSE1011F</td>
<td>Fundamentals of Human Occupation and Development IB</td>
<td>48</td>
<td>5</td>
</tr>
</tbody>
</table>

*Total NQF credits in IP: ............................................................ 112

*Note: students who failed PSY1004F or PSY1006F in the first semester of the first year are required to register for PSY1006F as part of the intervention programme.*

FBE3.5 A student who has failed PPH1002S Becoming a Health Professional will register for this course as well.

FBE3.6 Once a student has satisfactorily completed all the prescribed courses of the Intervention Programme, he/she may proceed to semester 2 of the standard curriculum.

### DP (Due Performance) requirements and progression rules

FBE4 (a) 100% attendance is required for practice learning. Absence from practice learning on medical grounds requires a medical certificate. Validity of absence on grounds of personal or other problems will be considered on an individual basis by the relevant academic staff members. If this attendance requirement is not met, the student will be required to repeat the course or the practice learning block.

(b) A minimum of 80% attendance is required for lectures and practicals in all modules and courses. Absence on medical grounds requires a medical certificate. Validity of absence on grounds of personal or other problems will be considered on an individual basis by the academic staff in the Division.

(c) To qualify for the summative assessment (final examinations) in all Occupational Therapy courses, students have to attend all compulsory educational activities listed in course booklets.
(d) A student who fails a course may be permitted to write a supplementary examination. The class (or year-) mark is not added to the result of any such supplementary examination in determining the final result for the course.

**Readmission**

FBE5.1 Except by permission of the Senate, a student will not be permitted to renew his/her registration for the degree, or may have his/her registration cancelled:

(a) if he/she is in the Intervention Programme and fails any course in it (no supplementary examinations are offered in the Intervention Programme);

(b) if he/she fails a course which he/she is repeating;

(c) unless he/she, from the second year of study, successfully completes in each year’s examination cycle half or more of the courses for which he/she is registered in that year (an examination cycle being an examination plus a supplementary or deferred examination, if awarded);

(d) unless he/she successfully completes all the prescribed courses for any single year in two years;

(e) if he/she is unable to complete the standard programme in six years; or

(f) if he/she has been found guilty of unprofessional behaviour or found to be impaired.

FBE5.2 A student who has not fulfilled the required number of clinical hours will not be permitted to graduate.

**Distinction**

FBE6 The degree may be awarded with distinction (average of 75% or above for all courses from first to final year of study).
BACHELOR OF SCIENCE IN PHYSIOTHERAPY
[SAQA ID: 3345]

Convener:
Associate Professor S Maart (Department of Health & Rehabilitation Sciences)

[Programme code: MB004 or MB017 (Intervention Programme). Plan code: MB004AHS08. SAQA registration number: 3345.]

Physiotherapy is an applied discipline dedicated to the study of human movement and function and its relevance to health and well-being. As such, physiotherapy involves the skilled use of physiologically-based movement techniques, supplemented when necessary by massage, electrotherapy and other physical means, for the prevention and treatment of injury and disease. It is used to assist the processes of rehabilitation and restoration of function, including the achievement of personal independence. Candidates for the degree programme should be interested in human relationships and have a strong commitment to service within the field of healthcare.

The Division of Physiotherapy strives to be a world-class, African Division of Physiotherapy and is committed to the primary healthcare approach of educating physiotherapists who will be well prepared to meet the health, rehabilitation and research needs of our country. The programme is designed to equip students both academically and professionally with the skills and clinical expertise required to practise competently and confidently within a variety of healthcare settings, including hospitals, clinics, community health centres, special schools, homes and other community-based facilities. Accordingly, students are required to carry out clinical practice in urban and peri-urban areas as well as informal settlements. Students are required to wear shorts and T-shirts for practical classes. As physiotherapy is a practical discipline, students are expected to disrobe for some of their practical classes. They are expected to wear suitable navy trousers and a prescribed white shirt for their clinical practice. The lecturers are committed to a philosophy of evidence-based teaching within the undergraduate programme.

Duration of programme
FBF1 The curriculum for the degree extends over four years of full-time study. Students who pass through the Intervention Programme will take an additional year to complete the degree.

Curriculum
[Note: See section on Definition of Terms used in this Handbook for explanatory notes about HEQSF levels and NQF credits.]

FBF2.1 First year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPH1001F</td>
<td>Becoming a Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1 *</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1019F</td>
<td>Anatomy and Physiology IA</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1022F</td>
<td>Biosciences for Physiotherapy IA</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>AHS1033F</td>
<td>Movement Science I</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PPH1002S</td>
<td>Becoming a Health Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>HUB1020S</td>
<td>Anatomy and Physiology IB</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1023S</td>
<td>Biosciences for Physiotherapy IB</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>AHS1034S</td>
<td>Introduction to Applied Physiotherapy</td>
<td>22</td>
<td>5</td>
</tr>
</tbody>
</table>

Total NQF credits for year 1 ...........................................142
Note: *Some students may be required to do the following additional Psychology course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

FBF2.2 Any student who fails one or more of the following courses may be required to enter the Intervention Programme Parts 1 and 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY1004F</td>
<td>Introduction to Psychology Part 1</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>HUB1019F</td>
<td>Anatomy and Physiology IA</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1022F</td>
<td>Biosciences for Physiotherapy IA</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>AHS1033F</td>
<td>Movement Science I</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

FBF2.3 A student who was not required to enter the Intervention Programme Part 1, or who fails a course in the second semester of the first year of the standard curriculum, may be required to enter the Intervention Programme Part 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPH1002S</td>
<td>Becoming a Health Professional</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>HUB1020S</td>
<td>Anatomy &amp; Physiology IB</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HUB1023S</td>
<td>Biosciences for Physiotherapy IB</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>AHS1034S</td>
<td>Introduction to Applied Physiotherapy</td>
<td>22</td>
<td>5</td>
</tr>
</tbody>
</table>

[See rule FBF3.1 below for the Intervention Programme curriculum. The Intervention Programme starts in July and ends in June of the following year, after which the student joins the second semester of the standard curriculum.]

FBF2.4 Second year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLL1028H</td>
<td>Xhosa for Health and Rehabilitation Sciences*</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>SLL1048H</td>
<td>Afrikaans for Health and Rehabilitation Sciences*</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>AHS2002W</td>
<td>Clinical Sciences I</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td>HUB2015W</td>
<td>Anatomy &amp; Physiology II for Health &amp; Rehab Sciences</td>
<td>36</td>
<td>6</td>
</tr>
<tr>
<td>HUB2023W</td>
<td>Biosciences for Physiotherapy II</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>AHS2050H</td>
<td>Clinical Physiotherapy I</td>
<td>18</td>
<td>6</td>
</tr>
<tr>
<td>AHS2052H</td>
<td>Movement Science II</td>
<td>38</td>
<td>6</td>
</tr>
<tr>
<td>AHS2053H</td>
<td>Applied Physiotherapy I</td>
<td>32</td>
<td>6</td>
</tr>
</tbody>
</table>

Total NQF credits for year 2 ...................................................... 164

FBF2.5 Third year

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS3004W</td>
<td>Clinical Sciences II</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>AHS3069W</td>
<td>Clinical Physiotherapy II</td>
<td>62</td>
<td>7</td>
</tr>
<tr>
<td>AHS3070H</td>
<td>Becoming a Rehabilitation Professional I</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3076H</td>
<td>Movement Science III</td>
<td>24</td>
<td>7</td>
</tr>
<tr>
<td>AHS3077H</td>
<td>Applied Physiotherapy II</td>
<td>22</td>
<td>7</td>
</tr>
<tr>
<td>AHS3078H</td>
<td>Research Methods and Biostatistics I</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

Total NQF credits for year 3 ...................................................... 150

*[Note: Students who speak an African language other than Xhosa as a home language will have a choice of registration for either Xhosa or Afrikaans; students who speak English or Afrikaans as a home language will register for Xhosa.]*
### RULES AND CURRICULA FOR UNDERGRADUATE PROGRAMMES

**FBF2.6 Fourth year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS4065W</td>
<td>Clinical Physiotherapy III</td>
<td>98</td>
<td>8</td>
</tr>
<tr>
<td>AHS4066F/S</td>
<td>Becoming a Rehabilitation Professional II</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>AHS4071F/S</td>
<td>Applied Physiotherapy III</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>AHS4072H</td>
<td>Research Methods and Biostatistics II</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

*Total NQF credits for year 4:* 132

*Total NQF credits for programme:* AHS4066S will be offered if the student fails AHS4066F **AHS4071S will be offered if the student fails AHS4071F 588

### Intervention programme

**FBF3.1** The following courses must be satisfactorily completed during the Intervention Programme by a student who enters the Intervention Programme after semester 1:

#### Intervention Programme Part 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE1008S</td>
<td>Fundamentals of Anatomy and Physiology IA</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>HSE1012S</td>
<td>Fundamentals of Biosciences for Physiotherapy IA</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>HSE1003S</td>
<td>Preparation for Entry-level Psychology for Health &amp; Rehab Part I</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>HSE1014S</td>
<td>Fundamentals of Movement Science &amp; Applied Physiotherapy IA</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

**FBF3.2** A student who fails HSE1003S and has met the DP requirement for this course may be permitted to repeat the course during the summer term. If he/she again fails HSE1003S during the summer term, he/she may be refused readmission.

**FBF3.3** A student entering IP who failed PSY1004F or PSY1006F in the first semester of the standard first year programme will be required to register for all IP1 courses, including HSE1003S.

**FBF3.4** The following courses must be satisfactorily completed during the Intervention Programme by a student who has completed the Intervention Programme Part 1 or who is required to enter the Intervention Programme after semester 2 of the standard curriculum:

#### Intervention Programme Part 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>NQF Credits</th>
<th>HEQSF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE1009F</td>
<td>Fundamentals of Anatomy and Physiology IB</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>HSE1013F</td>
<td>Fundamentals of Biosciences for Physiotherapy IB</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>HSE1015F</td>
<td>Fundamentals of Movement Science &amp; Applied Physiotherapy IB</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>PSY1006F</td>
<td>Introduction to Psychology Part 1+</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

*Total NQF credits in IP:* 136

*[Note: For students who failed PSY1004F in the first semester of first year.]*

### DP (Due Performance) requirement

**FBF4.1** A minimum of 80% attendance is required for: lectures, practicals and tutorials in all professional modules and courses. Attendance is monitored through the signing of an attendance register at each session. Absence on medical grounds requires a medical certificate. Students are required to submit all coursework as required in the different modules (where applicable) by the due dates.
FBF4.2 Clinical DP for courses AHS3069W and AHS4065W Students need to complete the required clinical hours as prescribed by the HPCSA. In addition full attendance of and participation in all coursework activities and submission of clinical portfolio by due dates set. Where a student is absent for more than five (5) days in total for the calendar year, the student will be required to work the clinical hours back at a time agreed upon by the course convenor and clinical placement. Absence on medical grounds requires a medical report. Should a student miss two weeks (or 8 clinical days) or more of a clinical block rotation prior to entering the clinical block examination week, the student will not be eligible to do the end of block examination. Reasons for absence (including supporting documentation) must be submitted to the division within 5 days.

FBF4.3 AHS4065W: An electronic pre-block test must be completed prior to the start of the ICU placement. Students who do not achieve a minimum of 60% for the ICU pre-block test will NOT be allowed to manage ICU patients and will be expected to shadow the clinician in ICU and only treat ward patients independently until they pass the additional test. A second opportunity to re-write the test will be arranged with the relevant students. If by the end of week 2 of the block the student still hasn’t passed the pre-block test, the student will be removed from the block and will be required to re-do the entire block at a time arranged by the course convenor and the clinical placement.

FBF4.4 DP requirements for service courses within each year of physiotherapy may be different to the general Physiotherapy DP requirement and it is the responsibility of each student to ensure that they are familiar with ALL DP requirements for each year of study.

Minimum requirements for progression and readmission

[Note: These rules must be read in conjunction with the general rules for students in the Faculty in the relevant front section of this Handbook.]

FBF5.1 Students are required to do a nursing elective as part of AHS2050H. The elective must be for a total of 40 hours, at a facility recognised by the Divisional Board of Physiotherapy, and must be completed before the start of the second semester. Students whose performance in the nursing elective is deemed unsatisfactory have to repeat the elective before progressing to the next year of study.

FBF5.2 Students are required to complete a three-week elective satisfactorily as part of AHS4065W and before the start of the second semester, during which they may arrange to work at any healthcare facility recognised by the Divisional Board. Students whose performance is deemed unsatisfactory are required to undertake a period of additional clinical work, at the discretion of the Divisional Board.

FBF5.3 Except by permission of the Senate, a student will not be permitted to renew his/her registration for the degree:

(a) if he/she is in the Intervention Programme and fails any course in it (no supplementary examinations are offered in IP);
(b) if he/she fails a course which he/she is repeating;
(c) unless he/she, from the second year of study, successfully completes in each year’s examination cycle half or more of the courses for which he/she is registered in that year (an examination cycle being an examination plus a supplementary or deferred examination, if awarded);
(d) unless he/she successfully completes all the prescribed courses for any single year in two years;
(e) if he/she is unable to complete the standard programme in six years.

**FBF5.4**  A student who has not fulfilled the required number of clinical hours will not be permitted to proceed to the next year of study (or to graduate, if he/she is in his/her final year of study).

**FBF5.5**  A student who fails any course and is required to repeat any year will be required to repeat the Clinical Physiotherapy course for that year (AHS2050H Clinical Physiotherapy I; AHS3069W Clinical Physiotherapy II; AHS4065W Clinical Physiotherapy III) and to pay full fees.

**Distinction**

**FBF6**  The degree may be awarded with distinction (a credit-weighted average of 75% or above for all courses from first to final year of study).

**Course Assessment**

**FBF7**  Assessments for coursework will include but not be limited to written tests, oral tests, online quizzes, group and individual assignments and practical tests. Students must complete a course evaluation at the end of each semester online via VULA for all courses.

**Lecture Times**

**FBF8**  Lecture times will be made available online via VULA sites for all courses at the start of the academic year for both service and profession specific physiotherapy courses.

**Carrying Over of Courses Across Years of Study**

**FBF9**  Students who during their course of study in the programme are repeating a course and wish to bring down a course from a higher year/level will be allowed to do so if all pre-requisites for the course have been met and DP requirements for the repeating and carried courses are also met. **Specifically pertaining to clinical course within the programme, students are required to obtain credits for ALL theoretical courses of the preceding year, to register for a clinical year.**
HIGHER CERTIFICATE IN DISABILITY PRACTICE
[SAQA ID: 93691]

Conveners:
Professor T Lorenzo and A Hansen (Department of Health & Rehabilitation Sciences)

[Programme Codes: MU002AHS21 (January intake) and MU004AHS21 (July intake).]

The programme will be of benefit to current home-based carers, community-based workers and matriculants who have an interest in pursuing a career in the field of community-based disability practice. It will create foundational skills for disability prevention and care. This qualification is to provide students with the basic knowledge, cognitive and conceptual tools and practical techniques for application in the field of disability inclusive development. This qualification signifies that the student has attained a basic level of higher education knowledge and competence in their role as community development workers. The Higher Certificate includes theoretical and practical work integrated learning components.

Admission requirements
FGC1.1 An applicant may be considered for admission to this Higher Certificate on the basis of:
(a) having obtained a matric certificate or National Senior Certificate for Adults (NASCA) or HEQSF level 4 equivalent qualification; or
(b) RPL (Recognition of Prior Learning), in which case applicants will be required to submit a personal portfolio reflecting, amongst others, their experience in the field of disability and/or development; any relevant work experience; past attendance of relevant courses for which they may have obtained certificates or diplomas; assessments related to evidence of critical thinking skills in writing and reading; and
(c) evidence that they are proficient in English.

FGC1.2 An applicant is also recommended to submit two letters of support from his/her employer, granting the applicant study leave for the weeks requiring block attendance, and undertaking to provide support to enable the applicant to complete assigned tasks and assignments within the work context.

Structure and duration of programme
FGC2 The programme comprises four taught courses and one practical course. The curriculum extends over one year (from January to December or from June to June, to be determined by the Department of Health and Rehabilitation Sciences). There are three theoretical teaching blocks per year of a maximum of four weeks each and 15 weeks of practice learning (a total of 24 weeks which will run from February to November). Participation in tutorials and group projects is compulsory. All coursework must be completed in a minimum of one year and a maximum of two years.

Programme outline FGC3: The prescribed courses for the January intake are:

<table>
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<tr>
<th>Code</th>
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<td>Disability Info Management &amp; Communication Systems</td>
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<td>AHS1049S</td>
<td>Promoting Healthy Lifestyles</td>
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<td>AHS1050W</td>
<td>Health, Wellness and Functional Ability</td>
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<td>AHS1051F</td>
<td>Inclusive Development and Agency</td>
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<td>AHS1052F</td>
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Total NQF credits: .............................................................................120
Programme outline FGC4: The prescribed courses for the July intake are:

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<td>AHS1065S</td>
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<td>AHS1061F</td>
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<td>AHS1067F</td>
<td>Work-Integrated Practice Learning Pt II</td>
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Readmission and progression rules and supplementary examinations

FGC5.1 In order to undergo the final examinations, students have to meet the following requirements:

(a) A minimum of 90% attendance for all lectures.
(b) A minimum of 100% attendance for the work-integrated practice learning. If this attendance requirement is not met, the student will be required to repeat the course or the practice learning block (clinical rotation).
(c) All coursework must be completed within the prescribed time period, unless otherwise approved by the programme convener. Participation in tutorials and group projects is compulsory and will be monitored.
(d) A year mark of at least 50% is required for examination entrance to each course, unless approved otherwise by the programme convener.

[Note: Absence from courses or the practice learning block or other commitments on medical grounds requires a medical certificate. Validity on absence on grounds of personal or other problems will be considered on an individual basis by the staff of the Programme.]

FGC5.2 Except by permission of the Senate, a student will not be permitted to renew his/her registration for the degree, or may have his or her registration cancelled:

(a) if he/she fails a course which he/she is repeating;
(b) unless he/she successfully completes all the prescribed courses for any single year in two years;
(c) if he/she is unable to complete the standard programme in two years; or
(d) if he/she is found guilty of unprofessional behaviour.

FGC5.3 A student who has not fulfilled the required number of clinical hours for practice learning will not be permitted to graduate.

FGC5.4 A student who fails a course may be permitted to write a supplementary examination. The class (or year) mark is not added to the result of any such supplementary examination in determining the final result for the course.
ADVANCED DIPLOMA IN COSMETIC FORMULATION SCIENCE  
[SAQA Registration awaited]

Convener:  
Professor N Khumalo

[Programme Code: MU003MDN27]

The purpose of this programme is to provide Bachelor of Science graduates with the scientific knowledge and skills to safely develop, formulate and test cosmetics. The qualification is an intensive, focused and applied specialisation that meets the requirements of a specific niche in the labour market through the development of knowledge in basic hair and skin anatomy; cosmetic ingredients; cosmetic formulation; product stability; efficacy assessment; product safety and quality management; and the regulation of cosmetic formulation.

Admission requirements  
FGD1 An applicant may be considered for admission to this Advanced Diploma on the basis of:  
(a) having obtained at least a Bachelor of Science or equivalent science qualification with first year-level physics and second-year level mathematics or statistics. Other preferable subjects include Human Biology, Molecular Cell Biology, Microbiology and Biochemistry; and  
(b) evidence of proficiency in English.  
(c) National Benchmark Test (NBT) is not required for the program.

FGD2 An applicant should submit a letter of support from his/her employer, granting the applicant study leave for the weeks requiring block attendance and undertaking to provide support to enable the applicant to complete assigned tasks and assignments within the work context.

Structure and duration of the programme  
FGD3 The programme comprises five courses and extends over one year. Participation in tutorials and group projects is compulsory*. Where all coursework cannot be completed in a minimum of one year, permission may be granted for the Diploma to be completed over a maximum of two years.  
[*Note: Absence from courses or other commitments on medical grounds requires a medical certificate. Validity of absence on grounds of personal or other problems will be considered on an individual basis by the academic staff of the Programme.]

Curriculum outline  
FGD4 The prescribed courses are:

<table>
<thead>
<tr>
<th>Code</th>
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<td>MDN3005W</td>
<td>Scientific Principles of Cosmetic Formulations</td>
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<td>MDN3006W</td>
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<td>MDN3007W</td>
<td>Hair and Skin Biology for the Cosmetic Formulator</td>
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<tr>
<td>MDN3008W</td>
<td>Cosmetics: Claims, Regulation and Ethics</td>
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<tr>
<td>MDN3009W</td>
<td>Professional Communication and Project Management for Cosmetic Scientists</td>
<td>15</td>
<td>7</td>
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</tbody>
</table>

Total NQF credits: 120
Readmission and progression rules and supplementary examinations
[Note: These rules must be read in conjunction with the general rules for students in the Faculty in
the relevant front section of this Handbook.]

FGD5.1 A student who fails a course may be permitted to write a supplementary examination. The
year mark is added to the result of any such supplementary examination in
determining the final result for the course.

FGD5.2 Except by permission of the Senate, a student will not be permitted to renew his/her
registration for the degree, or may have his or her registration cancelled, if:
   (a) he/she fails more than one course;
   (b) he/she fails a course which he/she is repeating;
   (c) he/she is unable to successfully complete all the prescribed courses in two
       years; or
   (d) he/she is found guilty of unprofessional behaviour.
# DEPARTMENTS IN THE FACULTY

## LIST OF DEPARTMENTS, DIVISIONS and UNITS

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<th>Department</th>
<th>Division/Unit</th>
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<td>Anaesthesia &amp; Perioperative Medicine</td>
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Otorhinolaryngology
Paediatric Surgery
Plastic, Reconstructive & Maxillo-facial Surgery
Surgical Gastroenterology
Urology
ANAESTHESIA AND PERIOPERATIVE MEDICINE

D23, New Groote Schuur Hospital

Professor and Head:
JLC Swanevelder, MBChB MMed Stell DA SA FCA SA FRCA UK

Professor and Deputy Head:
BM Biccard, MBChB Cape Town FFARCSI FCA SA MMedSc PhD UKZN

Emeritus Professor and Senior Scholar:
RA Dyer, BScHons Stell MBChB PhD Cape Town FCA SA

Associate Professors:
IA Joubert, MBChB Witwatersrand DA SA FCA SA
RE Parker, BSc BScHons (Medicine) PGDip (Health Professional Education) Cape Town MSc (Pain) PhD Queen Margaret University

Senior Lecturers Full-time:
K Bergh, MBChB Pret DA SA FCA SA
K Bester, MBChB Stell DA SA FCA SA
KH Bhagwan, MBChB Cape Town DA SA FCA SA
B Brennan, MBChB Cape Town DA SA FCA SA
M Casey, MBChB Pret Dip PEC SA DA SA FCA SA
E Cloete, MBChB Pret DA SA FCA SA
E Coetzee, MBChB Pret DA SA FCA SA
A De Vaal, MBChB UFS DA SA FCA SA
R Duys, MBChB MMed Cape Town MRCP UK FCA SA
A Ernst, MBChB Pret DA SA FCA SA
MW Gibbs, MBChB Stell MMed Cape Town DA SA FCA SA
RM Gray, MBChB Cape Town DA SA FCA SA
N Hadebe, MBChB Witwatersrand FCA SA
N Hauser, BSc (Physiotherapy) MBChB MMed Cape Town DA SA FCA SA
RA Haylett, MBChB Cape Town DA SA FCA SA
SAM Heijke, MBChB Cape Town FFA SA
MR Hofmeyr, MBChB Stell Dip (Primary Emergency Care) SA DA SA FCA SA
K Kemp, MBChB Stell DA SA FCA SA
N Khan, MBChB Cape Town DA SA FCA SA
RL Llewellyn, MBChB Cape Town FCA SA
A Marais, MBChB MMed Stell DA SA FCA SA
H Meyer, MBChB London FRCA UK
MGA Miller, MBChB Stell FCA SA Cert (Critical Care) SA
LF Montoya-Pelaez, MBChB Zimbabwe FCA SA
AL Myburgh, MBChB Pret DA SA FCA SA
MB Nejthardt, BSChons (Physiology) MBBCh Witwatersrand DA SA FCA SA
RW Nieuwveld, BSc MBChB Witwatersrand FFA SA
G Picken, MBChB Cape Town DA SA FCA SA
JL Piercy, BSChons MBBS London FCA SA Cert (Critical Care) SA
O Porrill, MBChB Witwatersrand DA SA FCA SA
AR Reed, MBChB Cape Town DA SA FRCA UK
F Roodt, MBChB Cape Town DA SA FCA SA
FG Schneider, MBChB Cape Town FRCA UK FANCA AUS
C Simons, MBChB Cape Town DA SA FCA SA
HKS Steinhaus, MBChB Cape Town DA SA FCA SA
KJ Timmerman, MBChB *Cape Town* DA SA FCA SA  
D van Dyk, MBChB *Cape Town* DA SA FCA SA  
J van Nugteren, MBBCh *Witwatersrand* DA SA FCA SA  
A Vorster, MBChB *Stell* DA SA FCA SA  
GS Wilson, MBChB *Cape Town* FCA SA  

**Lecturer Part-time:**  
DJB Batty, MBChB *Cape Town* FCA SA  

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**AAE2001S  SPECIAL STUDY MODULE**  
16 NQF credits at HEQSF level 6  
**Convener:** Dr R Klopper  
**Course entry requirements:** None  
**Objective:** The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.  
**Course outline:**  
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.  
**DP requirements:** Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.  
**Assessment:** Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.
AAE4002W ANAESTHESIA PART I
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: AAE4102X, AAE4202X, AAE4302, AAE4402X, AAE4502X
20 NQF credits at HEQSF level 8
Convener: Dr E Cloete
Course entry requirements: Successful completion of all courses within the preceding academic year.
Objective: The student is expected to acquire the basic knowledge and skills required for safe clinical anaesthesia, including the ability to perform pre-operative assessments and render appropriate postoperative care. There is an emphasis on safe anaesthesia practice with a focus on professional behaviour appropriate to the role of the anaesthetist as a peri-operative physician.
Course outline:
Anaesthesia is formally taught in the fourth and sixth years of study. The four-week fourth year course is integrated with Medicine in an eight-week rotation and is based on tutorials with clinical teaching and practical training in the operating theatres. In the sixth year, a two-week course of practical clinical instruction is presented during the combined four-week Forensic Medicine and Anaesthesia rotation. In addition, in fifth and sixth year, students are required to include an anaesthesia assessment in all surgical clinical case studies done during the General Surgery rotation, concentrating on the pre-operative workup, potential anaesthesia strategies and alternatives, and the postoperative intravenous fluid and pain management. The fourth to sixth years’ learning in anaesthesia are complementary. Core knowledge includes basic knowledge of anaesthesia techniques and equipment. Learning in the fourth year is based on developing an understanding of the academic basis of anaesthesia, and the related physiology and pharmacology.
DP requirements: Appropriately completed logbook, satisfactory attendance of seminars (4 out 6) and attendance of a Pain Workshop.
Assessment: Two components, equally weighted: (1) Computer based single-best answers and (2) OSPE (Clinical scenarios and equipment) short answer questions.

AAE4003W ANAESTHESIA PART I FOR EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: AAE4103X, AAE4203X, AAE4303X, AAE4403X, AAE4503X
8 NQF credits at HEQSF level 8
Convener: Dr A Ernst
Course entry requirements: None
Co-requisites: None
Course outline:
This is a two week block in which students will rotate in theatre to acquire the basic skills necessary for the conduct of safe anaesthesia. Formal teaching consists of seminars with a mixture of case-based, interactive, and didactic learning. There is an emphasis on safe anaesthesia practice and professional behaviour appropriate to the role of the anaesthetist as a perioperative physician. Core knowledge comprises the core physiology and pharmacology relevant to anaesthesia, basic knowledge of anaesthesia techniques, drugs, and equipment, and understanding the interaction of surgery, anaesthesia and pre-existing disease in various clinical scenarios. A logbook of clinical skills is to be completed.
DP requirements: Satisfactory completed logbook of anaesthesia skills and attendance of all tutorial seminars.
Assessment: Assessment consists of (1) a slide based OSPE (50%) and (2) a written exam of single best answer multiple choice and short answer questions (50%). An overall mark of 50% or more must be obtained to pass the course.
**AAE5000W ANAESTHESIA PART II FOR EXTERNAL CREDIT**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: AAE5100X, AAE5200X, AAE5300X, AAE5400X, AAE5500X*

10 NQF credits at HEQSF level 8

**Convener:** Dr B Brennan

**Course outline:**

This is a course taken by South African students studying towards a Cuban medical degree. The course builds on the fundamental skills and knowledge acquired in AAE4003W, and is a two-week course of practical clinical instruction aimed at solidifying clinical skills and decision-making necessary for the conduct of safe clinical anaesthesia and optimal perioperative patient care. The student is expected to demonstrate essential knowledge of clinical anaesthesia and skills in the preoperative, intra-operative and postoperative care of patients necessary for safe anaesthetic practice; and professional behaviour appropriate to the pivotal role of the anaesthetist as a peri-operative physician. Formative assessments are conducted by the anaesthetists who supervise the student's administration of a series of anaesthetics and their interaction during in-theatre discussions. A logbook of discussions on core topics in clinical anaesthesia is to be completed. Summative assessment includes an end-of-block examination (weighting 60%), and the scores from the best four supervised anaesthetics the student conducted (weighting 40%). The student must obtain a pass-mark of 50% or more in the end-of-block examination in order to pass.

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**AAE6000W ANAESTHESIA PART II**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: AAE6100X, AAE6200X, AAE6300X, AAE6400X, AAE6500X*

10 NQF credits at HEQSF level 8

**Convener:** Dr B Brennan

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Objective:** The student will demonstrate knowledge of clinical anaesthesia; skills in the preoperative, intra-operative and postoperative care of patients necessary for safe anaesthetic practice; and professional behaviour appropriate to the pivotal role of the anaesthetist as a peri-operative physician.

**Course outline:**

Anaesthesia is formally taught in the fourth and sixth years of study with a case-studies component during the fifth and sixth year surgery rotations. In sixth year, a two-week course of practical clinical instruction is presented during the combined four-week Forensic Medicine and Anaesthesia rotation. The fourth and sixth years’ learning in anaesthesia are complementary. Learning in the sixth year is based on a series of anaesthetics which the student administers under supervision, including the preoperative assessment of the patient and their postoperative management. Students are required to perform a minimum of two general anaesthetics and two spinal anaesthetics case that they personally manage under specialist supervision. These assessments are “open” and known to the student. Students are encouraged to perform as many anaesthetics as possible; the best four scores are counted. In addition, students are required to include an anaesthesia assessment in all surgical clinical case studies done during the General Surgery rotation; concentrating on the pre-operative workup, potential anaesthesia strategies and alternatives, and the postoperative intravenous fluid and pain management. Core knowledge: Basic knowledge of anaesthesia techniques and equipment.

**DP requirements:** Completion and Submission of minimum required number of supervised and assessed anaesthesia cases as stipulated in the course manual.

**Assessment:** An EOB computer based SBA exam. This must be passed with a minimum of 50% in order the pass the block. A mark of 48% or 49% for the EOB exam may qualify the student to be considered for a supplementary exam without needing to repeat the block. The EOB exam contributes 60% to the final anaesthesia mark. The 4 clinical cases contribute 40% to the final anaesthesia mark.
HEALTH AND REHABILITATION SCIENCES
F45, F56 Old Main Building, Groote Schuur Hospital

Associate Professor and Head of Department:
L Ramma, BA Fresno State PGDip (Health Economics) Cape Town MA (Audiology) San Diego MPH Witwatersrand AuD Florida

Communication Sciences and Disorders
F45, F56 Old Main Building, Groote Schuur Hospital

Head of Division:
M Harty, B (Communication Pathology) MA (Augmented & Alternative Communication) PhD Pret

Professor:
H Kathard, B (Speech and Hearing Therapy) M (Speech Pathology) DEd Durban

Associate Professors:
M Pascoe, BSc (Logopaedics) MSc (Speech-Language Pathology) Cape Town PhD Sheffield
SA Singh, B (Speech and Hearing Therapy) Durban MA PhD Northwestern

Senior Lecturers:
V Norman, BSc (Logopaedics) Cape Town M (Communication Pathology) Pret
L Petersen, B (Speech & Audiology) Stell MSc (Audiology) Cape Town
C Rogers, MSc (Audiology) Cape Town

Lecturers Full-time:
T Cloete, BSc (Audiology) MSc (Audiology) Cape Town
V-G Hlayisi, BSc (Audiology) MSc (Audiology) Cape Town

Lecturers Part-time:
Z Chakara, BSc (Audiology) MSc (Audiology) Cape Town
C Legg, BA (Speech and Hearing) MA (Speech Language Pathology) PhD Witwatersrand
O Mahura, BSc (Speech-Language Pathology) MSc (Speech-Language Pathology) Cape Town
S Segoneco, BSc (Audiology) Cape Town

Senior Clinical Educators Part-time
F Camroodien-Surve, BSc (Speech-Language Pathology) Cape Town M (Early Childhood Intervention) Pret
N Keeton, BSc (Audiology) MSc (Audiology) Cape Town
J le Roux, BSc (Logopaedics) Cape Town M (Early Childhood Intervention) Pret

Clinical Educators Part-time:
K Abrahams, BSc (Speech-Language Pathology) MSc (Speech-Language Pathology) PhD Cape Town
J Chohan, MSc (Audiology) Cape Town
G Gonsalves, BSc (Audiology) Cape Town
T Kuhn, BSc (Logopaedics) Cape Town
N Luwaca, BSc (Audiology) Cape Town
K Murray, BSc (Speech-Language Pathology) Cape Town
Disability Studies
F45, F56 Old Main Building, Groote Schuur Hospital

Associate Professor and Head:
J McKenzie, BSc (Logopaedics) BA Cape Town PGCE Unisa MA York PhD Rhodes

Professor:
T Lorenzo, BSc (Occupational Therapy) HDEdAd Witwatersrand MSc (Communication Disorders) London PhD Cape Town

Honorary Professor:
R McConkey, BAHons Queen’s University Belfast PhD Manchester

Senior Lecturer:
B Watermeyer, MA (Clinical Psychology) Cape Town DPhil Stell

Lecturers:
A Hansen, BSc (Audiology) MPhil Cape Town
S Gabriels, BSc (Physiotherapy) UWC
I Nwanze, B (Business Systems) BHons (Computing) Monash MPhil Cape Town

Post-Doctoral Fellow:
V Mckinney, PhD Cape Town

Nursing and Midwifery
F45, F56 Old Main Building, Groote Schuur Hospital

Senior Lecturer and Head:
NA Fouché, PhD MSc (Nursing) AUDNEd Cape Town Dip (Int Nursing) Science RM Carinus Nursing College RN Andrew Fleming Hospital

Honorary Professor:
S Ersser, BSChons London South Bank University RGN Guys Hospital London Cert (HE) Oxford Brookes University PhD Kings College University of London

Associate Professor:
SE Clow, BSocSc (Nursing) MSc (Nursing) Durban, Natal AUDNEd PhD Cape Town RN RM CHN

Emeritus Associate Professor:
U Kyriacos, Fellow (Academy of Nursing of SA) MSc BCur IetA Oph N Crit Care RN RM PhD Cape Town

Lecturers Full-time:
T de Villiers, BSc (Nursing) MSc (Nursing) PhD Cape Town Dip (Nursing Education) Cert (HIV/AIDS Care and Counselling) PGDip (Nursing Administration) Unisa PGDip (Paediatric Nursing) Nico Malan Nursing College
A Stubbs, RN RM BCur PGDip (Nursing Education) MSc (Nursing)
Y van der Nest, Dip (Nursing Education & Administration) UJ Dip (Nephrology Nursing) NMMU RN RM CHN Coronation Nursing College
**Occupational Therapy**

*F45, F56 Old Main Building, Groote Schuur Hospital*

**Head of Division:**
A. Sunday, BSc (Occupational Therapy) *UWC* M (Early Childhood Intervention) *Pret* PhD *Cape Town*

**Professors:**
R. Galvaan, BSc (Occupational Therapy) MSc (Occupational Therapy) PhD *Cape Town*
E. Ramugondo, BSc (Occupational Therapy) MSc (Occupational Therapy) PhD *Cape Town*

**Associate Professor:**
HA. Buchanan, BSc (Occupational Therapy) MSc (Occupational Therapy) PhD *Cape Town*

**Senior Lecturers:**
P. Gretschel, B (Occupational Therapy) M (Early Childhood Intervention) *Pret* PhD *Cape Town*
M. Motimele, BSc (Occupational Therapy) MSc (Occupational Therapy) *Cape Town*
L. Peters, BSc (Occupational Therapy) MSc (Occupational Therapy) *Cape Town*
M. Ramafikeng, BSc (Occupational Therapy) MSc (Occupational Therapy) PhD *Cape Town*

**Lecturers:**
I. Abbas, BSc (Occupational Therapy) MSc (Occupational Therapy)
S. Allie, BSc (Occupational Therapy) MPH *Unisa*

**Senior Clinical Educators Part-time:**
A. Ebrahim, BSc (Occupational Therapy) BSocSc *Cape Town* MEd *CPUT*
H. Flieringa, BArb *Stell* PGDip (Health Professional Education) MSc (Occupational Therapy) *Cape Town*

**Clinical Educators Part-time:**
S. Damonse, BSc (Occupational Therapy) *UWC*
M. Francke, BSc (Occupational Therapy) *Cape Town*
F. Gamieldien, BSc (Occupational Therapy) MSc (Occupational Therapy) *Cape Town* Dip (Business Management) *Varsity College*
M. Hanningtom, BSc (Occupational Therapy) *Cape Town*
T. Mohomed, BSc (Occupational Therapy) *UWC*
N. Mphapeloa, BSc (Occupational Therapy) *Cape Town*
L. Richards, BSc (Occupational Therapy) *Cape Town*
Z. Sayed, BSc (Occupational Therapy) *Cape Town*

**Physiotherapy**

*F45, F56 Old Main Building, Groote Schuur Hospital*

**Senior Lecturer and Head:**
N. Naidoo, BSc (Physiotherapy) *UDW* MMS ME *Natal* PhD *Cape Town*

**Associate Professor:**
S. Maart, BSc (Physiotherapy) MPH *UWC* PhD *Cape Town*

**Senior Lecturers:**
T. Burgess, BSc (Physiotherapy) BScHons (Medicine) PhD *Cape Town* MHSc (Bioethics) *University of Toronto*
G. Ferguson, BSc (Physiotherapy) MSc *Cape Town* PhD *Katholieke Universiteit Leuven*
Lecturers:
N Edries-Khan, BSc (Physiotherapy) MSc Cape Town
C Hendricks, BSc (Physiotherapy) MSc UWC
S Manie, BSc (Physiotherapy) UWC MSc Stell
N Ntinga
N Pefile

Lecturers Part-time:
H Talberg, BSc (Physiotherapy) MPhil (Education) Cape Town

Assistant Director, Department of Physiotherapy, Groote Schuur Hospital:
C Davids, BSc (Physiotherapy) UWC

Senior Clinical Educators Part-time:
L Rustin, BSc (Physiotherapy) MSc Cape Town
D Scott, BSc (Physiotherapy) MSc Cape Town

Clinical Educators Part-time:
I Du Plessis, BSc (Physiotherapy) MSc Pret
S Gabriels, BSc (Physiotherapy) UWC
F Harris, BSc (Physiotherapy) UWC
M Naidoo, BSc (Physiotherapy) MSc UWC
F Solomons, BSc (Physiotherapy) UWC

Honorary Professor:
B Smits-Engelsman, BA Polytechnic Nijmegen MA Utrecht MEd Maastricht MSc MA Avansplus Breda PhD Nijmegen

Honorary Lecturer:
P Versveld, BSc (Physiotherapy) MSc Cape Town

AHS1003F SPEECH AND HEARING SCIENCES
18 NQF credits at HEQSF level 5
Convener: Associate Professor L Ramma
Course entry requirements: None
Course outline:
The aim of this course is an understanding of the nature of sound, how sound is perceived by humans and how speech is produced. Content also includes the dimensions and parameters of sound; transmission of sound; analysis of sound; resonance; measurement of sound; range of hearing; the concept of threshold; concepts of loudness and pitch; masking as well as binaural hearing; speech production; nature of speech; vocal anatomy, the vocal tract articulators and resonators; linguistic function of speech sounds; as well as spectra and spectrograms. Skills taught include basic numeracy, the interpretation of graphs, as well as ability to relate physical concepts of sound to speech and hearing. Students should develop an appreciation of the physical nature of sound as well as an appreciation of the fact that perception of sound is an individual experience. Teaching and learning activities comprise lectures; practical demonstrations; assigned activities, self-directed study (websites), and group discussions.
DP requirements: Attendance at all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final mark is made up of coursework marks (60%) and examination marks (40%). If a supplementary examination is awarded, it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS1025S  EARLY INTERVENTION  
18 NQF credits at HEQSF level 5  
Convener: V Norman  
Course entry requirements: None  
Course outline:  
The course aims to develop an understanding of the need for the speech-language therapist/s/audiologist’s role in early intervention in the South African context; of risk populations; and of principles and approaches to screening, assessment and intervention. Content includes early intervention within the primary healthcare framework; an introduction to hearing, communication and feeding difficulties in specific risk populations; specific approaches to early intervention (asset-based, family-centred); and basic assessment and management of communication in children up to the age of three. Teaching and learning activities include lectures, small group discussions, literature searches and reviews and observation of interactions with young children. Themes underpinning the course are primary healthcare and contextual relevance; working in a multilingual, multicultural society; ethics and human rights; and developing agents for change.  
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.  
Assessment: The final mark is made up of coursework marks (60%) and examination marks (40%). If a supplementary examination is awarded, it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS1032S  OCCUPATIONAL PERSPECTIVES ON HEALTH AND WELL-BEING  
20 NQF credits at HEQSF level 5  
Convener: Dr P Gretschel  
Course entry requirements: AHS1035F or AHS1044F  
Objective: Students will be able to describe the link between human occupation, health and well-being; discuss forms of occupational risk/dysfunction focusing on environmental determinants; describe their understanding of the lived experience of a person with a disability; discuss various means of enabling occupational performance; understand the role of an OT and other role-players within practice learning settings; use reflection and reasoning as crucial for taking control of own learning; and learn how to turn an art form into a possible business venture.  
Course outline:  
This course analyses and explores the relationship between what people do and their health and well-being. By engaging with people of different ages in various practice learning contexts, students gain an appreciation of how dimensions of occupational performance in self-care, productivity and leisure unfold across the lifespan in relation to culture, context and ability. They also develop an appreciation of the lived experience of disability, and how dimensions of occupational performance in self-care, productivity and leisure are affected by disability. They engage with issues of diversity and explore the role of an OT as a transformative agent. They explore how art can serve as an income-generating activity and the role that the environment plays in facilitating or hindering people’s occupational aspirations and capabilities.  
Lecture times: Tuesdays, Thursdays and Fridays 11h00-12h45; and Wednesdays 09h00-12h45.  
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials and completion of all coursework by due dates.  
Assessment: Coursework assessments contribute 50% to the final mark and comprises a micro-enterprise assignment (20%); a Human Development and Occupation assignment (30%); journal 1 (20%); and journal 2 (30%). The final examination contributes 50% of the final mark and comprises a written paper. The final mark calculated as follows: Coursework mark (50%) and Examination mark (50%).
AHS1033F  MOVEMENT SCIENCE I  
18 NQF credits at HEQSF level 5  
Convener: Dr N Naidoo  
Course entry requirements: None  
Objective: At the end of this course, students will be able to understand the concepts of movement as it relates to the body and across the lifespan.  
Course outline:  
Course content comprises basic terminology and science associated with human movement and basic principles of assessment. This course is taught through lectures, practical demonstrations, workshops, self-study sessions and tutorials.  
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials.  
Assessment: The course mark is weighted 50% and comprises tutorial tasks (weighted 15%); a theory test (20%); and a structured practical test (15%). The final examination mark is weighted at 50% and comprises a written examination (25%) and a structured practical examination (25%).

AHS1034S  INTRODUCTION TO APPLIED PHYSIOTHERAPY  
22 NQF credits at HEQSF level 5  
Convener: Dr N Naidoo  
Course entry requirements: All first semester courses in the BSc Physiotherapy programme.  
Objective: At the end of this course students will be able to apply the concepts of movement as relates to basic assessment of mobility and exercise.  
Course outline:  
This course builds on the foundational concepts covered in Movement Science 1 and will consolidate the principles of application to health promotion and well-being. The course is taught through lectures, practical demonstrations and workshops, self-study sessions and tutorials. Students visit the clinical platform for exposure to the scope of physiotherapy practice.  
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.  
Assessment: The coursework mark is weighted 50% and comprises tutorial tasks (weighted 15% towards final mark); a theory test (15%); a structured practical test (15%) and an assignment (5%). The final exam is weighted 50% and comprises of a written examination (25%) and a structured practical exam (25%).

AHS1035F  HUMAN OCCUPATION AND DEVELOPMENT  
22 NQF credits at HEQSF level 5  
Convener: Dr P Gretschel  
Course entry requirements: None  
Objective: By the end of this course, students are able to describe the concept of “occupation” and begin to understand its dimensions; discuss occupational therapy values and their influence on understanding people and approaches for practice; discuss the place of activity analysis in occupational therapy and begin to use macro activity analysis; discuss the experience and the doing of an occupation; describe the role that the environment plays in an occupation; describe and discuss human development in relation to the occupational human; and discuss issues of diversity in relation to the self.  
Course outline:  
This course introduces students to the basic concepts that underlie occupational therapy principles, values and modes of practice. These concepts include foundational theories in the study of human occupation and development. Students develop procedural and critical thinking by exploring the occupational human and occupational behaviour in various contexts. By exploring art forms engaged in by people in urban as well as rural or informal settlements, students begin to appreciate the relationship between human occupation and the environment. Students also engage with issues
of diversity through open and constructive dialogue that aims to facilitate an understanding of intergroup relations, conflict and community.

**Lecture times:** Tuesdays, Thursdays and Fridays 11h00-12h45 and Wednesdays 09h00-12h45.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials and completion of all coursework by due dates.

**Assessment:** Coursework assessments contribute 50% to the final mark and comprises of an art forms report (30%); art forms presentation (30%); and test (40%). The final exam contributes 50% to the final mark and comprises a written paper. The final mark is calculated as follows: Coursework mark (50%) and examination mark (50%).

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**AHS1042F  HUMAN COMMUNICATION DEVELOPMENT**
18 NQF credits at HEQSF level 5

**Convener:** Associate Professor M Pascoe

**Course entry requirements:** None

**Course outline:**
The purpose of this course is to enable the student to understand the communication chain and difficulties when breakdown occurs; and key aspects of communication development in children up to the age of six and school-age children. Content also includes general principles of development; typical communication (speech, language and auditory) development; and a framework for language development. Students develop the skills of observation and interaction with children; profile a child’s development in relation to expected milestones; and develop materials. The course emphasises an appreciation of the influence of culture and individual differences on communication development. Teaching and learning activities comprise lectures, small group discussions, class presentations, and observation of and interaction with young children. Themes underpinning the course include primary healthcare and contextual relevance; a multilingual, multicultural society; ethics and human rights.

**DP requirements:** Attendance at all lectures; completion of all coursework by the due dates.

**Assessment:** Mid-term test (20%); an assignment (30%); and a final summative examination (50%).

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**AHS1045S  BASIS OF HEARING AND BALANCE**
18 NQF credits at HEQSF level 5

**Convener:** C Rogers

**Course entry requirements:** None

**Course outline:**
This course aims to develop an understanding and knowledge of the anatomy, physiology and pathology of hearing and balance underpinning audiology diagnoses; the impact of hearing and balance difficulties; and prevention and health promotion strategies. Content includes the anatomy and physiology of hearing and balance and the patho-physiology of hearing and vestibular disorders. Students learn to appreciate that a thorough knowledge of the anatomy, physiology and pathology is fundamental to an audiology diagnosis. They acquire a holistic view of clients and appreciate the need to exercise duty of care. Teaching and learning activities include lectures, web-based learning, case studies and group learning. Themes underpinning the course include primary healthcare, the burden of disease, and a bio-psycho-social model of healthcare.

**DP requirements:** Attendance of all academic activities is required. Students are required to submit all coursework by the due dates.

**Assessment:** The final mark is made up of coursework (60%) and examination marks (40%). If a supplementary examination is awarded, it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS1048W  DISABILITY INFORMATION MANAGEMENT AND COMMUNICATION SYSTEMS
15 NQF credits at HEQSF level 5
Convener: I Nwanze
Course entry requirements: None
Course outline:
The students will learn basic information and communication systems in relation to care pathways and referral systems for people with disabilities. By the end of this course, students should appreciate critical enquiry; know how to use a variety of participatory rural appraisal methods; be able to apply ethical principles in research ethics work with DPOs; know the components of an information system; understand the principles and practice of record-keeping; know how to use a variety of different tools to gather information (WHO checklist, ICF, PRA); and know how to identify relevant support service and care pathways for effective referral across sectors.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework mark counts 50% and is comprised of the following: on-site assessment, assignments and structured practical tests. The examination mark counts 50% and comprises of a structured practical examination.

AHS1049S  PROMOTING HEALTHY LIFESTYLES
10 NQF credits at HEQSF level 5
Convener: S Gabriels
Course entry requirements: None
Course outline:
The course aims to cultivate an understanding of the relevance of health promotion actions and advocacy strategies. By the end of the course, students will be able to define health promotion; identify social determinants of health; enable community participation in active health promotion campaigns; mediate between health services and families/persons with disabilities; advocate for access to education, health or community facilities; liaise with NGOs/community structures; and promote participation of persons with disabilities.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework mark counts 50% and comprises assignments, written tests and practical tests. Exam mark counts 50% and comprises written and structured practical examinations.

AHS1050W  HEALTH, WELLNESS AND FUNCTIONAL ABILITY
30 NQF credits at HEQSF level 5
Convener: S Gabriels
Course entry requirements: None
Course outline:
The overall purpose of the course is to provide participants with the basic foundation of knowledge and skills to teach and care for the learner within the special care centre. It will also provide participants with the basic knowledge for disability inclusive development on a theoretical and practical level.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework mark counts 50% and comprises assignments, written and practical tests. The examination mark counts 50% and comprises a structured practical examination.
AHS1051F  INCLUSIVE DEVELOPMENT AND AGENCY
15 NQF credits at HEQSF level 5
Convener: Professor T Lorenzo
Course entry requirements: None
Course outline:
This course aims to cultivate knowledge of the rights of people with disabilities and strategies and actions to enable participation in opportunities for development. By the end of this course, students should be able to explain the concepts of disability, inclusion development, identity, agency and power; explain the purpose of disability rights policies; identify and negotiate factors influencing access and participation across sectors; implement strategies to enable participation and access to services; mobilise local resources; and work with relevant experts and stakeholders.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework mark counts 50% of the year mark and comprises assignments (essay writing and oral presentations). The examination mark counts 50% of the year mark and comprises a structured practical examination.

AHS1052F  WORK-INTEGRATED PRACTICE LEARNING PART I
25 NQF credits at HEQSF level 5
Convener: A Hansen
Co-requisites: Students need to have fully attended and participated on the theory blocks to be allowed onto the practice learning blocks.
Course outline:
The course provides various practice learning opportunities to help students acquire the ability to screen, provide basic care, follow up and refer a person with a disability, as it relates to health, education, social development and empowerment needs of the communities in which they are placed. By the end of this course, students should be able to demonstrate an understanding of the disability issues within a wider context and in relation to the community in which they practice; be able to apply essential methods, procedures and techniques to address the difficulties and disorders experienced by people in the community; demonstrate ability to solve problems as required; demonstrate efficient information-gathering, analysis and decision-making abilities; demonstrate ability to evaluate and reflect in and on action; and demonstrate appropriate written and verbal communication skills.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework contributes 50% and the examination contributes 50% toward the final course mark. The examination consists of an OSPE, a final demonstration, and a video and/or poster of the student’s work with a client group or organisation.

AHS1053S  WORK-INTEGRATED PRACTICE LEARNING PART II
25 NQF credits at HEQSF level 5
Convener: A Hansen
Co-requisites: Students need to have fully attended and participated on the theory blocks to be allowed onto the practice learning blocks.
Course outline:
The course provides various practice learning opportunities to help students acquire the ability to screen, provide basic care, follow up and refer a person with a disability, as it relates to health, education, social development and empowerment needs of the communities in which they are placed. By the end of this course, students should be able to demonstrate an understanding of the disability issues within a wider context and in relation to the community in which they practice; apply essential methods, procedures and techniques to address the difficulties and disorders experienced by people in the community; demonstrate ability to solve problems as required; demonstrate efficient information-gathering, analysis and decision-making abilities; demonstrate
ability to evaluate and reflect in and on action; and demonstrate appropriate written and verbal communication skills.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.

**Assessment:** Coursework contributes 50% and the examination contributes 50% towards the final mark. The examination consists of an OSPE, final demonstration, and a video and/or poster of the student’s work with a client group or organisation.

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**AHS1054W**  SOUTH AFRICAN SIGN LANGUAGE  
8 NQF credits at HEQSF level 5  
Convener: L Petersen  
**Course entry requirements:** None  
**Course outline:**  
The aim of this course is to acquire South African Sign Language (SASL) at a basic level to obtain case history, give instructions (plus diagnostic testing), feedback and informational counselling, and to demonstrate use of appropriate communication strategies for sign language. Content includes greetings, basic communication, finger-spelling and numbers, hand-shape, location, orientation, movement and non-manual features, production and reception of signs, dominant and passive hands, how to change the language structure from SASL into English and English into SASL, specific sign vocabulary relating to audiology and speech and language therapy, and general sign vocabulary. Students learn to conduct a case history using basic sign language. They acquire an attitude of empathy and respect for multilingual and multicultural diversity. Teaching and learning activities include modelling, lectures, group-work, role-play, and videos/DVDs. Students have interactions with members of the Deaf community.

**DP requirements:** Attendance of all academic activities is required. Students are required to submit all coursework by the due dates.

**Assessment:** The final mark is made up of a coursework mark (60%) and an examination mark (40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

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**AHS1060S**  DISABILITY INFORMATION MANAGEMENT AND COMMUNICATION SYSTEMS PART I  
0 NQF credits at HEQSF level 5  
Convener: I Nwanze  
**Course entry requirements:** None  
**Co-requisites:** AHS1063S, AHS1065S and AHS1066S  
**Course outline:**  
Students learn the importance of information management and how adequate and inadequate application of the principles of record keeping affect the overall quality of client quality of care. Students learn skills in adult learning, group management and giving appropriate feedback depending on the audience. Students demonstrate skills in communicating information appropriately to clients while observing the verbal and non-verbal modes of communication. Students learn how to prepare and use appropriate visual aids for information dissemination to the appropriate audience. Students then learn how to search and record and use available resources in the community as support structures for the quality of care provided to clients.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of portfolio by the due dates.

**Assessment:** Practical test 15%; Portoflio assessment 10%; and Examination 25%.
AHS1061F  DISABILITY INFORMATION MANAGEMENT & COMMUNICATION SYSTEM PART II
7 NQF credits at HEQSF level 5
Convener: I Nwanze
Course entry requirements: AHS1060S
Co-requisites: AHS1064F, AHS1062F and AHS1067F
Course outline:
The students will learn basic information and communication systems in relation to care pathways and referral systems for people with disabilities. By the end of this course, students should appreciate critical enquiry; know how to use a variety of participatory rural appraisal methods; be able to apply ethical principles in research ethics work with DPOs; know the components of an information system; understand the principles and practice of record-keeping; know how to use a variety of different tools to gather information (WHO checklist, ICF, PRA); and know how to identify relevant support service and care pathways for effective referral across sectors.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of portfolio by the due dates.
Assessment: Practical test 15%; Portfolio assessment 10%; and Examination 25%.

AHS1062F  PROMOTING HEALTHY LIFESTYLES
10 NQF credits at HEQSF level 5
Convener: S Gabriels
Course entry requirements: None
Co-requisites: AHS1064F, AHS1061F and AHS1067F
Course outline:
By the end of the course, students will be able to define health promotion; identify social determinants of health; enable community participation in active health promotion campaigns; mediate between health services and families/persons with disabilities; advocate for access to education, health or community facilities; liaise with NGOs/community structures; and promote participation of persons with disabilities.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Coursework mark counts 50% and comprises assignments, written tests and practical tests. Exam mark counts 50% and comprises written and structured practical examinations.

AHS1063S  HEALTH, WELLNESS AND FUNCTIONAL ABILITY PART I
15 NQF credits at HEQSF level 5
Convener: S Gabriels
Course entry requirements: None
Co-requisites: AHS1060S, AHS1065S and AHS1066S
Course outline:
Students learn to screen for impairments and provide basic interventions to improve participation of clients in the life areas of living, learning, working and socialising. By the end of the course, students will be able to discuss and describe normal development and wellness in children and adults; identify clients with selected disorders and difficulties; demonstrate appropriate kinetic handling and positioning skills; demonstrate appropriate use of assistive devices; identify risk factors for emotional distress in carers, clients and self; apply basic counselling and support methods to carers, clients and self; recognise when referral is required; demonstrate appropriate referral patterns; and work in a multidisciplinary team. This course will prepare students for work integrated practice learning in the community and intermediate care facilities.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: A total of 45% which includes a coursework of 20% from AHS1063S (and a coursework mark of 25% from AHS1064F). The summative exam will take place in AHS1064F and is weighted 55%.

### AHS1064F  HEALTH, WELLNESS AND FUNCTIONAL ABILITY PART II
15 NQF credits at HEQSF level 5  
**Convener:** S Gabriels  
**Course entry requirements:** AHS1063S  
**Co-requisites:** AHS1061F, AHS1062F and AHS1067F  
**Course outline:** Students learn to screen for impairments and provide basic interventions to improve participation of clients in the life areas of living, learning, working and socialising. By the end of the course, students will be able to discuss and describe normal development and wellness in children and adults; identify clients with selected disorders and difficulties; demonstrate appropriate kinetic handling and positioning skills; demonstrate appropriate use of assistive devices; identify risk factors for emotional distress in carers, clients and self; apply basic counselling and support methods to carers, clients and self; recognise when referral is required; demonstrate appropriate referral patterns; and work in a multidisciplinary team This course will prepare students for Work integrated practice learning in the intermediate care facilities.  
**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.  
**Assessment:** A total of 45% which includes a coursework of 20% from AHS1063S and a coursework mark of 25% from AHS1064F. The summative exam takes place in AHS1064F and is weighted at 55%.

### AHS1065S  INCLUSIVE DEVELOPMENT AND AGENCY
15 NQF credits at HEQSF level 5  
**Convener:** Professor T Lorenzo  
**Course entry requirements:** None  
**Co-requisites:** AHS1063S, AHS1060S and AHS1066S  
**Course outline:** By the end of this course, students should be able to explain the concepts of disability, inclusion development, identity, agency and power; explain the purpose of disability rights policies; identify and negotiate factors influencing access and participation across sectors; implement strategies to enable participation and access to services; mobilise local resources; and work with relevant experts and stakeholders.  
**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.  
**Assessment:** Coursework mark counts 50% of the year mark and comprises assignments (essay writing and oral presentations). The examination mark counts 50% of the year mark and comprises a structured practical examination.

### AHS1066S  WORK INTEGRATED PRACTICE LEARNING PART I
25 NQF credits at HEQSF level 5  
**Convener:** A Hansen  
**Course entry requirements:** None  
**Co-requisites:** AHS1060S, AHS1063S and AHS1065S  
**Course outline:** By the end of this course, students should be able to demonstrate an understanding of the disability issues within a wider context and in relation to the community in which they practice; be able to apply essential methods, procedures and techniques to address the difficulties and disorders experienced by people in the community; demonstrate ability to solve problems as required; demonstrate efficient information-gathering, analysis and decision-making abilities; demonstrate
ability to evaluate and reflect in and on action; and demonstrate appropriate written and verbal communication skills.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.

**Assessment:** Coursework includes weekly task submission and a Portfolio of evidence which contributes 50% and the examination contributes 50% toward the final course mark.

### AHS1067F WORK INTEGRATED PRACTICE LEARNING PART II
25 NQF credits at HEQSF level 5

**Convener:** A Hansen

**Course entry requirements:** None

**Co-requisites:** AHS1064F, AHS1062F and AHS1061F

**Course outline:**
By the end of this course, students should be able to demonstrate an understanding of the disability issues within a wider context and in relation to the community in which they practice; apply essential methods, procedures and techniques to address the difficulties and disorders experienced by people in the community; demonstrate ability to solve problems as required; demonstrate efficient information-gathering, analysis and decision-making abilities; demonstrate ability to evaluate and reflect in and on action; and demonstrate appropriate written and verbal communication skills.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.

**Assessment:** Coursework (weekly task submission and Portfolio of Evidence) contributes 50% and the examination contributes 50%.

### AHS2002W CLINICAL SCIENCES I
13 NQF credits at HEQSF level 6

**Convener:** Dr MA De Souza

**Course entry requirements:** None

**Course outline:**
The course covers the aetiology, clinical signs and symptoms, assessment and medical and surgical treatment of patients of all age groups suffering from conditions encountered by occupational therapists and physiotherapists during their work. The lecture series has been designed to integrate information about pathology and the clinical management of a range of conditions across the previously demarcated areas of medicine, surgery, orthopaedics and paediatrics. The topics covered include pathology, oncology, orthopaedics, child health, neurosurgery, spinal cord injuries, cardiothoracic surgery, medicine and palliative care. At the end of the course, students will have a basic understanding of the physiology, pathology, clinical presentation and management of the conditions presented; will be able to recognise and deal with the clinical emergencies that may impair or result in loss of function; will understand the role of the various disciplines in managing these conditions; and will recognise the importance of a multidisciplinary team in managing patients they are likely to encounter.

**DP requirements:** Eighty per cent attendance and full participation in all learning activities and completion of all coursework and three assignments by the due dates.

**Assessment:** There are three term assessments, in March, June and September. Each of these is a one-hour online MCQ test and counts 14% each towards the year mark. Ten percent (10%) of the year mark is made up from attendance and assignments during the year. There is an examination at the end of the year (a two-hour online MCQ assessment) which accounts for 48% of the total mark.

A supplementary assessment (a two-hour MCQ online test) may be offered for students obtaining an overall mark between 45 and 49%.
AHS2043W  OCCUPATIONAL THERAPY II
36 NQF credits at HEQSF level 6; Lectures (54, including pracs/OSPE) and two site visits. No tutorials, except for student support tutorials approximately every second Friday.

Convener: M Motimele

Course entry requirements: PSY1005S or PSY1007S, HUB1020S, AHS1035F and AHS1032S

Objective: At the end of the year students will be able to identify, conduct, interpret and record appropriate assessments of the occupational human including sensory-motor, psycho-social and context-related dimensions.

Course outline:
This course focuses on the assessment of occupational performance, interests, needs and capacities in different life tasks/roles within the contexts of play, work, self-care and leisure. Students learn occupational therapy processes and assessment techniques for identifying individual health and occupational needs, interests and capacities. Content includes disability in primary healthcare, occupational performance assessment, occupational assessment of human beings and professional practice.

Lecture times: Lectures are on a Monday (08h00 – 10h45, 14h00 – 16h45) and Thursday (14h00 – 16h45).

DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of all coursework by the due dates.

Assessment:
Course work contributes 60% and comprises class tests, assignments, small group projects, presentations and practicals. Summative assessment contributes 40% toward the final course mark and comprises a written theory exam, an objective standardised practical examination, and a written report.

AHS2046F  DIAGNOSTIC AUDIOLOGY
18 NQF credits at HEQSF level 6

Convener: L Petersen

Course outline:
This course aims to enable students to devise an appropriate audiology case history interview; describe and discuss a comprehensive diagnostic audiology process; describe audiology tests; and reflect on and communicate assessment outcomes to the client. Content includes case history; fundamentals of the audiology diagnostic process; audiology test battery; pure tone, speech and immittance audiometry; functional hearing loss; principles of masking; clinical reasoning; differential diagnosis; and clinical report writing. Students start to acquire the skills of jargon-free written communication, appropriate test selection, analysis and interpretation, and knowing when and how to refer. They learn that information and personal adjustment counselling are key in the empowerment of clients, and learn an appreciation of the role of the team; they also cultivate an awareness of professional boundaries. Teaching and learning activities include lectures, case studies, self-directed study, role-play, experiential learning, simulations, and group-work. Themes underpinning course are primary healthcare and contextual relevance, disability and burden of disease, ethics and human rights, bio-psycho-social models of health, developing agents for change, and equity and affirmation of diversity.

DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due dates.

Assessment: The course mark is made up of a coursework mark (60%) and examination mark (40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS2047S  PAEDIATRIC REHABILITATIVE AUDIOLOGY
18 NQF credits at HEQSF level 6
Convener: TBC
Course entry requirements: AHS2106F
Course outline:
This course aims to enable the student to describe and discuss the paediatric population with hearing impairment; analyse and apply theoretical frameworks relating to communication; and devise comprehensive assessment and management for children with hearing impairment. Content includes the impact of hearing loss on children, families and society; local and international perspectives of the importance of early intervention; philosophical approaches to habilitation (auditory and visual); literacy and spoken language facilitation; collaborating with families; management of infants, toddlers, school-age children and adolescents with hearing loss; and multi-lingual and multi-cultural considerations for paediatric aural habilitation. Teaching and learning activities include lectures, case studies, guided self-study, videos, an interview of a parent with a child with a hearing impairment, and role-play. Themes underpinning the course are primary healthcare and contextual relevance, disability and burden of disease, ethics and human rights, bio-psycho-social models of disability, developing agents for change, and equity and affirmation of diversity.
DP requirements: Attendance at all academic activities is required. Students are required to submit all coursework by the due dates.
Assessment: The final mark is made up of a course work mark (60%) and a final examination mark (40%). If a supplementary examination is awarded, it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS2050H  CLINICAL PHYSIOTHERAPY I
18 NQF credits at HEQSF level 6
Convener: S Gabriels
Course entry requirements: All first-year courses.
Course outline:
This course comprises three parts: The clinical component addresses the theory and practical application of respiratory, orthopaedic, paediatric neurology and musculoskeletal therapy. An introductory module introduces the students to the concepts of the International Classification of Functioning and how to relate these concepts to assessment. Students spend a portion of the week in various clinical areas, working with patients under supervision. Clinical reasoning sessions are included. Students are required to do a nursing elective of 40 hours at an approved facility. Disability in Primary Healthcare is a 160 hour, multidisciplinary module spread over the second and third years of study. It integrates vertically with the Becoming a Professional/Becoming a Health Professional multidisciplinary courses at first year level. The module consists of lectures and facilitated site visits. The content focuses on health promotion, culture, psyche and illness; and equity, health and human rights. Disability theory and the theory of health promotion and community development are also addressed.
DP requirements: Full attendance and participation in all coursework. Student attendance at clinical sessions is monitored in accordance with HPCSA regulations.
Assessment: The course is assessed via continuous in course assessment. Clinical modules are assessed through end of block clinical submissions and skill testing. The lecture module is assessed through integrated written assessment and an online component. Each module/block is weighted 25%. The pass mark for the course is 50%. Should a student obtain between 45-49% an opportunity for re-assessment will be provided. The re-assessment will replace the previous lowest clinical block mark and the course average will be re-calculated using the re-examination mark. A student must achieve a minimum of 50% to pass the re-assessment. If the student does not obtain 50%, they will fail the course.
AHS2052H  MOVEMENT SCIENCE II  
38 NQF credits at HEQSF level 6  
Convener: C Hendricks  
Course entry requirements: All first year courses  
Course outline:  
This course covers orthopaedics and neuromusculoskeletal physiotherapy. The orthopaedics component covers the physiotherapy assessment and management of orthopaedic conditions, focusing on the assessment and treatment of traumatic orthopaedic conditions of the spine and lower limbs, amputations and paediatric orthopaedic conditions. The neuromusculoskeletal component covers the physiotherapy assessment and treatment and rehabilitation of neuromusculoskeletal (NMS) conditions, focusing on NMS conditions of the spine and lower limbs. This course is taught through lectures, practical demonstrations and workshops, self-study sessions and tutorials. At the end of this course, students will be able to assess traumatic orthopaedic conditions of the spine and lower limbs, amputations and paediatric orthopaedic conditions; and NMS conditions of the spine and lower limbs according to the International Classification of Functioning (ICF); apply joint and soft tissue mobilisation techniques to treat NMS conditions of these areas; and prescribe progressive exercises to rehabilitate NMS and orthopaedic conditions of these areas.  
DP requirements: Students are expected to attend and participate in 80% of all lectures and practical sessions and attend all tutorials. Attendance is monitored through the signing of an attendance register at each session. Students are required to submit all coursework as required.  
Assessment: Formative online quizzes throughout the year (15%); Term 1 tests (NMS: 2.5%; orthopaedics: 2.5%); Term 2 tests (theory: NMS 10%; orthopaedics 10%; structured practical evaluation: 10%); Term 3 assignment (10%); and final Term 4 examination (theory: NMS 25% and structured practical evaluation: 15%).

AHS2053H  APPLIED PHYSIOTHERAPY I  
32 NQF credits at HEQSF level 6  
Convener: N Ntinga  
Course entry requirements: All first year courses.  
Course outline:  
This course covers modules in paediatric neurology, cardiopulmonary rehabilitation, electrotherapy, geriatrics, proprioceptive neuromuscular facilitation (PNF) and key requirements for becoming a rehabilitation professional, including ethics. The ICF framework tool is used in all modules in the course. The paediatric neurology component covers the foundation of neurological techniques of child development and assessment and treatment techniques used by physiotherapists in paediatric neurology. The cardiopulmonary rehabilitation component covers the theory, manual techniques and assistive devices required for the holistic assessment and treatment of cardiopulmonary clients. The emphasis is on primary healthcare and problem-solving, using the ICF. The electro-physical agents module includes the theoretical and practical application of such agents, including the application of electro-physical modalities in the management of patients. The rehabilitation professional/ethics component includes the ethics of individual patient care and explores the concepts of primary healthcare in more depth. The geriatrics component covers the process of ageing and the assessment and treatment techniques used by physiotherapists in the field of gerontology. The proprioceptive neuromuscular facilitation component covers the theory and practical application of PNF as it applies to the assessment and rehabilitation of patients.  
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.  
Assessment: Coursework mark contributes 65% and is made up of the following: Term 1: 13%; Term 2: 35% (25% theory, 10%SPE); and Term 3: 17%. Assessments for coursework will include but not be limited to written tests, oral test, online quizzes, group and individual assignments and practical tests. Specifics regarding assessment will be provided for each module within the course by the course convenor. Individual weighting that make up the coursework mark will be provided to the student at the start of term by the course convenor. The final examination mark in Term 4 will contribute 35% (25% for theory and 10% SPE) for the course.
AHS2054S  SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal
Course entry requirements: All first year MBChB courses.
Objective: The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.
Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/ music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.
DP requirements: Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.
Assessment: Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.

AHS2106F  CHILD LANGUAGE
21 NQF credits at HEQSF level 6
Convener: Dr M Harty
Course entry requirements: AHS1042F or HSE1005S
Course outline:
This course aims to enable the student to compare and contrast child language delay, difference and disorder; and to describe and critically discuss the principles and nature of assessment and comprehensive management of child language. Content includes the nature, assessment and management of child language difficulties. Students learn to profile a child’s general development in relation to expected milestones. They acquire knowledge and skills in the transcription and analysis of child language; clinical reasoning; and strategies for working with child language difficulties in multilingual, multicultural environments. They acquire an appreciation of a multilingual, multicultural society in the assessment and management of child language difficulties and a willingness to problem-solve when clients and clinicians do not share a common language. Teaching and learning activities include lectures, small group discussions, class presentations and case discussions (video and paper). Themes underpinning the course are a multilingual, multicultural society, provision of contextually relevant services, and developing agents for change.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The course mark is made up of a coursework mark (weighted 60%) and a final examination mark (weighted 40%). If a supplementary examination is awarded, it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS2107F  CHILD SPEECH
18 NQF credits at HEQSF level 6
Convener: Associate Professor M Pascoe
Course entry requirements: AHS1042F or HSE1005S
Course outline:
This course aims to enable students to compare different speech difficulties in children, describe and discuss speech assessment and principles of speech intervention and apply principles of intervention to special populations. Content includes the nature of articulation and phonological difficulties, and assessment of and therapy for children with articulation and phonological difficulties. Students learn skills of observation and interaction with children, learn to profile a child’s development in relation to expected milestones, and learn transcription and analysis of child speech, as well as knowledge translation and clinical reasoning skills. They acquire an awareness that culture and individual differences influence children’s speech and acquire an ability and willingness to problem-solve when clients and clinicians do not share a common language. Teaching and learning activities include lectures, small group discussions, class presentations, and observations of and interaction with young children. Themes underpinning the course are a multilingual, multicultural context; provision of contextually relevant services; and developing agents for change.

DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS2108W  CLINICAL SPEECH THERAPY 1
24 NQF credits at HEQSF level 6
Convener: TBC
Course entry requirements: AHS1025S; AHS2106F and AHS2107F (see FBC 5.2).
Course outline:
This course aims to enable the student to demonstrate professional conduct; promote communication development and prevent communication delays in children; and assess and manage children with speech and language delays, disorders and differences. Students have the opportunity to work with children of different ages and within different clinical settings. Project Design and Management includes a needs and situation analysis; planning and implementing an appropriate project; monitor and evaluate project. Students learn the skills of knowledge translation, effective written and verbal communication, and operational clinic management. They learn the need for respectful interpersonal relationships and professionalism and acquire an appreciation of ethical behaviour. Teaching and learning activities include observation of experienced clinicians, clinical practice, promotion and prevention activities, and assessment and management of children. Themes underpinning the course are primary healthcare, equity and affirmation of diversity, developing agents for change, evidence-based practice, ethical and professional practice, and a client- and family-centred approach.

DP requirements: Attendance at all academic activities, including clinics; completion of all coursework and required documentation (e.g. ELOs and hours) by the due dates; and professional conduct.
Assessment: Formative assessments; summative assessments during each clinical block contribute 90% to coursework total; Project Design and Management contributes 10% to coursework total.
AHS2109S  SCHOOL-BASED INTERVENTIONS
21 NQF credits at HEQSF level 6
Convener: J le Roux
Course entry requirements: AHS2106F
Course outline: This course aims to enable the student to compare and contrast the range of communication challenges experienced by learners in school settings, including preschool, and to describe appropriate assessment and intervention strategies for managing these in the SA educational context. Content includes the nature, assessment and management of children with communication challenges, including language learning delays, difficulties and disorders (LLDs); fluency; and auditory processing/attention difficulties in the school context. Students acquire the skills of knowledge translation, assessment and analysis of language and literacy profiles of school-age children, clinical reasoning, as well as strategies for working in a multilingual, multicultural educational environment. They acquire an appreciation of a multilingual, multicultural society in the assessment and management of school-age children. They learn to develop a willingness to problem-solve when clients and clinicians do not share a common language; teaching and learning activities. Teaching activities include lectures, guided self-study, internet learning, role-play, case discussions (video and paper) and presentations. Themes underpinning the course are a multilingual, multicultural society, provision of contextually relevant services and developing agents for change. DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS2110W  CLINICAL AUDIOLOGY I
24 NQF credits at HEQSF level 6
Convener: T Kuhn
Course entry requirements: AHS2046F (see FBC 5.3).
Course outline: This course aims to enable the student to demonstrate professional conduct, to screen communication development in children aged 0 – 5yrs, and to assess peripheral auditory function in adults. Content includes neonatal hearing screening, school-based hearing screening, prevention and promotion, and diagnostic audiology in adults. There are five clinical blocks, which include Project Design and Management. Students have the opportunity to work with children of different ages and adults, within different clinical settings. Students acquire skills of ethical and professional practice, professional communication, clinic management, and assessment and management of the client. Students learn to develop a willingness to engage professionally and ethically, begin to accept responsibility for clinical service provision, acquire sensitivity to cultural diversity, and develop respect for client autonomy. Teaching and learning activities include clinical practice, clinic workshops, modelling (by clinical educators) and guided observation, simulations (e.g. Otis), clinic preparatory worksheets, as well as tutorials and reflective tasks. Themes underpinning the course are primary healthcare, evidence-based practice, ethical and professional practice, and a client- and family-centred approach.
DP requirements: Attendance at all academic activities, including clinics; completion of all coursework and required documentation (e.g. ELOs and hours) by the due dates; and professional conduct.
Assessment: Formative assessments; Summative assessments during each clinical block contributes 90% to coursework total; Project Design and Management contributes 10% to coursework total.
AHS2111S  DIAGNOSTIC AUDIOLOGY IN SPECIAL POPULATIONS
15 NQF credits at HEQSF level 6; Weekly lectures and tutorials.
Convener: T Cloete
Course entry requirements: AHS2046F
Course outline:
This course aims to enable the student to understand and discuss the nature, assessment and management of central auditory processing disorders (CAPD); and the hearing assessment of (a) the paediatric population (0-6 years), and (b) individuals who require modified assessment strategies. Content includes CAPD – its nature, assessment, differential diagnosis, management, as well as modified assessment strategies for paediatric and difficult-to-test populations. Students also learn the design and interpretation of test protocol, communication of results, and further management. Students acquire the ability to select an appropriate diagnostic test battery; analyse test results and integrate these results to inform decisions about the patient diagnosis and management plan. They design a management plan for further testing/referral/therapy (CAPD). They learn that early diagnosis and management of CAPD and hearing disorders in special populations is critical to a successful outcome and that holistic management and exercising duty of care are important. Teaching and learning activities include lectures, self-study, test demonstrations and case-based learning. Themes underpinning the course are disability and the burden of disease; equity and affirmation of diversity; and ethical conduct.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due dates.
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS3004H  CLINICAL SPEECH THERAPY II
30 NQF credits at HEQSF level 7
Convener: F Camrooden-Surve
Course entry requirements: AHS2108W, AHS2109S, AHS3071F and AHS3073F (see FBC 5.4).
Course outline:
This course aims to enable students to (i) assess, manage and support children (of all ages) with a range of communication difficulties, and their caregivers/teachers, in a variety of settings; and (ii) assess, manage and support adults with acquired communication difficulties and dysphagia. Project Design and Management includes identification, design, implementation and monitoring and evaluation of an appropriate community-based project. Students acquire skills of knowledge translation, effective written and verbal communication, operational clinic management, and clinical reasoning. They learn the need for an appreciation and respect for cultural and linguistic variability, empathy, and the need for ethical and professional practice. Teaching and learning activities include observation of experienced clinicians, clinical practice, promotion and prevention activities, assessment and management of children and adults, and team-work. Themes underpinning the course are primary healthcare, ethics and human rights, equity and affirmation of diversity, developing agents for change, disability and burden of disease, and evidence-based practice.
DP requirements: 80% attendance and full participation in all learning activities and completion of all coursework and three assignments by the due dates.
Assessment: Formative assessments; summative assessments during each clinical block contribute 80% of the course mark; Project Design and Management 10%; Examination in November 10%.
AHS3004W  CLINICAL SCIENCES II
10 NQF credits at HEQSF level 7
Convener: Dr MA De Souza
Course entry requirements: IBS2002W
Course outline:
The course covers the aetiology, clinical signs and symptoms, assessment and medical and surgical treatment of patients of all age groups suffering from conditions encountered by physiotherapists during their work. The lecture series has been designed to integrate information about pathology and the clinical management of a range of conditions across the previously demarcated areas of medicine, surgery, orthopaedics and paediatrics. Topics covered include microbiology, pain, nutrition, introduction to pharmacology, pathology, orthopaedics, medicine, cardiothoracic surgery, obstetrics and gynaecology, mental health, and neurosurgery. At the end of the course, students will have a basic understanding of the physiology, pathology, clinical presentation and management of the conditions presented; will be able to recognise and deal with the clinical emergencies that may impair or result in loss of function; will understand the role of the various disciplines in managing these conditions; and will recognise the importance of a multidisciplinary team in managing patients they are likely to encounter.
DP requirements: 80% attendance, full participation in all learning activities and completion of all coursework by the due dates.
Assessment: There are three term assessments, in March, June and September. Each of these is a one-hour on-line MCQ test and counts 9%, 14% and 14% respectively towards the year mark. Additionally, there is a microbiology test that takes place in April/May, accounting for 5% of the year mark. Ten per cent (10%) of the year mark is made up from attendance and assignments during the year. There is a two-hour examination at the end of the year which accounts for 48% of the total mark. A supplementary assessment (a two-hour MCQ online test) may be offered for students obtaining an overall mark between 45-49%, before the final mark is submitted.

AHS3008H  CLINICAL AUDIOLOGY II
30 NQF credits at HEQSF level 7
Convener: N Luwaca
Course entry requirements: AHS2046F, AHS2047S, AHS2110W and AHS2111S (see FBC 5.5).
Course outline:
This course aims to enable the student to assess and manage hearing impairment with paediatric and adult clients; assess peripheral and central auditory function with guidance, plan and implement management with support. Project Design and Management includes identification, design, implementation and monitoring and evaluation of an appropriate community-based project. Students acquire skills of ethical and professional practice and reflective practice. They learn to design and implement an assessment and management plan based on a holistic view of the client; they learn to operate a multidisciplinary practice; and they acquire clinical reasoning skills. They learn an appreciation of diversity, the need to embrace rehabilitation and to own their role as a rehabilitative audiologist. Teaching and learning activities include experiential learning (clinical practice), written reports, and guided and structured reflection. Themes underpinning the course: a holistic and a client-/family-centred approach, primary healthcare, ethics and human rights, equity and affirmation of diversity, developing agents for change, disability and burden of disease, and evidence-based practice.
DP requirements: Minimum of 80% attendance of all clinics; completion of all coursework and required documentation (e.g. ELOs, and hours) by the due dates; professional conduct.
Assessment: Formative assessments; summative assessments during each clinical block contribute 80% of the course mark; Project Design and Management 10%; Examination in November 10%.
AHS3062F REHABILITATION TECHNOLOGY  
22 NQF credits at HEQSF level 7  
Convener: L Petersen  
Course entry requirements: None  
Course outline:  
The aim of this course is to enable students to compare the roles of professionals and technology in the rehabilitation process, to assess and analyse the client’s need for rehabilitation technology, to design and discuss comprehensive management, and to debate relevant legal rights and ethical issues. Content includes the role of technology in the rehabilitation process, speech perception with hearing loss, hearing aids, frequency modulation (FM) systems, cochlear implants, features of amplification technology, and the verification and validation of technology fitting. Students acquire the skills of linking patient factors with technology and effective listening. They learn attitudes of client-centeredness and a respect for diversity. Teaching and learning activities include case-based learning, demonstrations, hands-on practice, and role-play. Themes underpinning the course are primary healthcare and contextual relevance, disability and the burden of disease, ethics and human rights, bio-psycho-social models of health, developing agents for change, and equity and affirmation of diversity.  
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.  
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS3065S ADULT REHABILITATIVE AUDIOLOGY  
18 NQF credits at HEQSF level 7  
Convener: TBC  
Course entry requirements: AHS2046F and AHS3062F  
Course outline:  
This course aims to enable students to understand the role of the rehabilitative audiologist, to learn about auditory dysfunction and its impact, to analyse and apply frameworks guiding aural rehabilitation, to assess and establish candidacy for aural rehabilitation, and to design and implement aural rehabilitation plans. Content includes stigmatisation, self-assessment and quality of life, optimisation of hearing technologies, role of motivation and self-efficacy, auditory training, audio-visual speech perception, vocational support, communication strategies and management of conversational fluency, group aural rehab, musical perception and enjoyment, counselling and tinnitus management. The acquisition of the following skills is facilitated: critical thinking, adapting to cultural context, selection and administration of appropriate assessments, interpretation of results, clinical reasoning, and the creation of client profiles to guide management. Sensitivity to cultural and contextual diversity, respect and sensitivity to issues of disability, and recognising the need for individualised management plans and being agents for change are addressed. Teaching and learning activities include lectures, brainstorming and snowball, case studies, guided self-study, and role-play. Themes underpinning the course include primary healthcare and contextual relevance, disability and the burden of disease, ethics and human rights, bio-psycho-social models of disability, developing agents for change, and equity and affirmation of diversity.  
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.  
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS3069W  CLINICAL PHYSIOTHERAPY II
62 NQF credits at HEQSF level 7
Convener: D Scott
Course entry requirements: All second year courses. Registration with the South African Society of Physiotherapists is encouraged.
Course outline:
The course provides clinical exposure to the areas of paediatrics, cardiopulmonary conditions, orthopaedics, musculoskeletal conditions, and care of the elderly. Students work under supervision with patients in various clinical settings. This course is taught through practical sessions, group teaching and clinical practice.
Lecture times: Monday to Friday 08h00-12h00: on general hospital and musculoskeletal clinical placements. Care of the older persons and paediatrics: Two mornings per week 08h00-12h00 during teaching weeks.
DP requirements: Students are obliged to complete all the required hours for the year as per HPCSA regulations. Further requirements are full attendance of and participation in all coursework activities and completion of clinical requirements by the due dates.
Assessment: This course is assessed via Continuous assessment conducted at the end of each clinical module. The pass mark for the course is 50%. This is calculated as an average of all clinical module/block marks. Each clinical module comprises of a clinical performance mark (40%) and either a patient assessment or treatment examination (60%). If a student obtains 50% or more by the end of the course, they will have passed. Opportunities exist for remediation and re-examination. If a student receives 50% but has failed 2 out of 4 clinical modules/blocks, they will be offered an opportunity for remediation and re-examination. This will be in the clinical area in which they received their lowest mark. If a re-examination (re-assessment) is awarded, this mark will replace the previous lowest mark and the final course mark will be re-calculated. A subminimum of 50% applies for this additional assessment. If a student receives below 50% for this assessment, the course will still be failed, and this mark will reflect as “Unclassified fail (UF).” If a student receives a final course score of between 48-49% they will be offered an opportunity for remediation and additional re-examination, in the area in which they received their lowest assessment mark. The additional period for remediation will be after the November examination period. If a re-examination is awarded, the mark will replace the previous lowest mark and the final course mark will be re-calculated. A subminimum of 50% applies for the re-examination. If a student receives below 50% for the re-examination, they fail the course and must repeat the course.

AHS3070H  BECOMING A REHABILITATION PROFESSIONAL I
22 NQF credits at HEQSF level 7
Convener: Associate Professor S Maart
Course entry requirements: AHS2050H
Course outline:
In this course students’ ability to think critically about South African health challenges is developed, to enable them to embed clinical reasoning within a contextual frame when working with populations and patients. During the first semester students focus on the health system within South Africa, to understand the context of service delivery. During the second semester, in the module CHH, students interrogate identity-based systems of privilege and power as well as identify and work with psychological cues that offer the health professional valuable insights to the complex systems that shape health, illness and recovery.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: CHH will comprise 50% of the year mark. Assessment will consist of: Essays, assignments, portfolios and presentations (60%) and a written examination (40%).
AHS3071F  ACQUIRED NEUROGENIC LANGUAGE DISORDERS
22 NQF credits at HEQSF level 7
Convener: Dr C Legg
Course entry requirements: None
Course outline:
This course aims to enable students to describe and critically discuss the consequences of an adult neurogenic language disorder with reference to the international classification of functioning, disability and health (ICF) and from a disability perspective. They learn the aetiologies and nature of adult neurogenic language disorders and the nature of assessments and comprehensive management of adults with neurogenic language disorders. Content includes the nature and prevalence of CVA, TBI and degenerative diseases; principles and the nature of assessment and management; the role of SLP and multidisciplinary management; and evidence-based practice. Students acquire skills of knowledge translation, critical and analytical thinking, and differential diagnosis. They acquire attitudes of empathy, ethical principles of respect and a holistic view of individuals. Teaching and learning activities include lectures, case discussions and presentations, videos, observation, and construction of assessment materials. Themes underpinning the course include management within a multilingual and multicultural context, the need for a holistic view of clients, developing agents for change, and materials development.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final mark is made up of 60% course work and 40% examination. If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS3072S  PAEDIATRIC DYSPHAGIA AND MOTOR SPEECH
22 NQF credits at HEQSF level 7
Convener: V Norman
Course entry requirements: None
Course outline:
This course aims to enable the student to describe and discuss aetiologies, the nature and consequences of (i) dysphagia; (ii) cleft palate in infants and children; and (iii) dysarthria in children. It addresses the nature of assessments and comprehensive management. Content includes anatomy, physiology, pathology, the aetiology of swallowing, resonance and motor speech disorders; principles and nature of clinical and objective assessments (video-fluoroscopic swallow study for dysphagia); differential diagnosis; evidenced-based management; teamwork; and working with special populations and families. Students learn to have a holistic view of individuals and acquire an appreciation of the infant/child within the family context. They learn about their role in improving participation, about client-centred interventions, advocacy, responsiveness to diversity, the need for an asset-based approach, and the importance of evidence-based practice. Teaching and learning activities include lectures, videos, case discussions, video analyses, literature reviews and critiques, group-work and presentations.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
**AHS3073F**  ADULT DYSPHAGIA AND MOTOR SPEECH

22 NQF credits at HEQSF level 7; Lectures 64; 16 practicals; 16 tutorials.

**Convener:** Associate Professor S Singh

**Course entry requirements:** HUB1014S

**Course outline:**

The aim of this course is to enable the student to describe and critique the nature, assessment, and management of swallowing and motor speech disorders in adults. Content includes relevant neurology, anatomy, physiology, pathology, aetiology; principles and nature of clinical and objective assessments, differential diagnosis, evidenced-based management, and palliative care within an ICF framework. Skills developed include knowledge translation, critical and analytical thinking, effective communication and group-work. Values including empathy, respect, a holistic view of individuals, appreciation of challenges to participation and inter-professional practice are developed as key to client-centred interventions. Teaching and learning activities include lectures, case discussions, video analysis, review and critique of the literature. Through communal constructivism, students devise, administer and interpret culturally and linguistically relevant materials (in Xhosa and Afrikaans). Themes underpinning the course include clinical management within a multilingual and multicultural context, developing agents for change, disability and burden of disease, equity, and affirmation of diversity.

**DP requirements:** Attendance of all academic activities is required. Students are required to submit all coursework by the due date.

**Assessment:** The final mark is made up of 60% coursework and 40% examination. If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

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**AHS3075S**  OAES AND ELECTROPHYSIOLOGY

22 NQF credits at HEQSF level 7; Weekly lectures and tutorials. Five Practical test demonstration sessions.

**Convener:** T Cloete

**Course entry requirements:** AHS2046F

**Course outline:**

This course aims to enable the student to justify, implement, and interpret oto-acoustic emissions (OAEs) and electro-physiological measures in adults and children. Content includes oto-acoustic emissions and auditory evoked potentials in relation to auditory anatomy and physiology, specificity and sensitivity of these tests, test parameters and set-up, analysis and interpretation of results, and management decisions. Students acquire skills of clinical reasoning and the effective communication of results. They learn the need for a client-centred approach and respect for diversity. Teaching and learning activities include case-based learning, demonstrations, hands-on practice, and guided group-work. Themes underpinning the course are primary healthcare and contextual relevance, disability and burden of disease, ethics and human rights, bio-psycho-social models of health, developing agents for change, and equity and affirmation of diversity.

**DP requirements:** Attendance at all academic activities is required. Students are required to submit all coursework by the due date.

**Assessment:** The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS3076H MOVEMENT SCIENCE III
24 NQF credits at HEQSF level 7
Convener: H Talberg
Course entry requirements: All second year courses
Course outline:
This course covers orthopaedics and neuromusculoskeletal conditions. The orthopaedic component covers the scope of physiotherapy assessment and management of non-traumatic orthopaedic conditions, of the spine and upper quarter, rheumatological conditions, joint replacements and peripheral nerve and tendon injuries. The neuromusculoskeletal component covers the physiotherapy assessment and treatment of neuromusculoskeletal (NMS) conditions. The focus is on NMS conditions of the upper quarter and hip. At the end of this course, students will be able to assess orthopaedic and NMS conditions of the upper quarter and hip according to the International Classification of Functioning (ICF); apply joint and soft tissue mobilisation techniques to treat NMS conditions of these areas; prescribe progressive exercises to rehabilitate NMS and orthopaedic conditions of these areas; assess orthopaedic conditions, including rheumatological conditions, joint replacements, non-traumatic spinal conditions, and peripheral nerve and tendon injuries; and apply physiotherapy treatment and rehabilitation for orthopaedic conditions, including rheumatological conditions, joint replacements, non-traumatic spinal conditions, peripheral nerve and tendon injuries.
DP requirements: Students are expected to attend and participate in 80% of all lectures and practical sessions, and all tutorials. Attendance is monitored through the signing of an attendance register at each session. Students are required to submit all coursework as required.
Assessment: The course will be assessed through a combination of written tests (40%), two OSPEs (Term 2 OSPE 15% and final Term 4 OSPE 15%); an assignment (15%) and formative revision MCQ’s (15%) which form part of the continuous assessment process.

AHS3077H APPLIED PHYSIOTHERAPY II
22 NQF credits at HEQSF level 7
Convener: Dr G Ferguson
Course entry requirements: AHS2053H and all second year courses.
Objective: By the end of the course, students will be able to accurately assess and effectively manage patients with neurological and cardiopulmonary conditions, women’s health issues and burns according to the International Classification of Functioning framework.
Course outline:
This course covers modules on adult neurology, cardiopulmonary rehabilitation, women’s health, management of burn injuries, neurosciences and neurological conditions, designed to develop clinical reasoning and creative problem-solving skills within the South African health care context. The adult neurology module equips the student with knowledge and skills to enable management of a variety of adult neurological conditions. The cardiopulmonary rehabilitations module equips the student with knowledge and skills to enable management of a variety of common adult and paediatric pulmonary conditions, including adult cardiothoracic surgery and cardiopulmonary rehabilitation. The emphasis is on primary healthcare and clinical reasoning. The women’s health module equips the student with knowledge and skills to enable management of women’s health conditions, including stress incontinence, mastectomy and pelvic floor dysfunction. The management of burn injuries module equips the student with knowledge and skills to enable management of burn injuries, using case studies relevant to the South African context. By the end of the course, students will be able to accurately assess and effectively manage patients with neurological and cardiopulmonary conditions, women’s health issues and burns according to the International Classification of Functioning framework.
Lecture times: Adult Neurology: Weekly throughout the academic year. Cardiopulmonary rehabilitation: Block teaching in term 1, 2 and 3. Women’s Health: Block teaching in term 1 and 2. Burns: Block teaching in term 4.
DP requirements: Students are expected to attend and participate in 80% of all lectures, practical sessions, workshops and tutorials. Attendance is monitored through the signing of an attendance
register at each session. Students are required to submit all coursework as required in the different modules by the due dates.

Assessment: Coursework contributes 60% toward the final mark. The coursework comprises tests and assignments in Women's Health (6%), tests, assignments and OSPES in Neurology (30%) and tests, OSPE's and assignments in CPR (24%). The final examination contributes 40% and consists of assignments, OSPEs and written tests in CPR and Neurology.

AHS3078H  RESEARCH METHODS AND BIOSTATISTICS I
10 NQF credits at HEQSF level 7
Convener: Dr G Ferguson and Dr N Naidoo
Course entry requirements: None
Course outline:
The course provides students with the necessary skills and conceptual knowledge to conduct research in occupational therapy and physiotherapy. Students receive lectures which cover the theory of qualitative and quantitative research, the ethics of research, epidemiology and basic biostatistics. Students learn how to analyse research articles critically and to develop a research proposal. This course is taught through lectures, tutorials and online assignments.

DP requirements: Continuous assessment will contribute 60% of and will comprise of six online assessments which will contribute 10% each. There will be a compulsory online Ethics module. The division specific research protocol will contribute the additional 40%. Students will need to obtain a minimum of 50% for their research proposal. If their proposal does not meet this requirement it needs to be revised and resubmitted. Students are expected to attend and participate in 80% of all lectures. Attendance is monitored through the signing of an attendance register at each session.

AHS3102S  CHILD LANGUAGE II
15 NQF credits at HEQSF level 7
Convener: Dr M Harty
Course entry requirements: AHS2109S
Course outline:
This course aims to build on basic knowledge of child language acquired in AHS2106F and AHS2109S. In this course students learn to assess and manage the communication of children who have a range of special education needs such as cerebral palsy, autism spectrum disorders, and traumatic brain injury. Students learn to implement Augmentative and Alternative Communication (AAC) strategies to assist children to participate within the home and school context. Content includes the nature, assessment and management of child language difficulties linked to a range of different etiologies. Students develop clinical reasoning skills and strategies for working with child language difficulties in a multilingual, multicultural environment. Teaching and learning activities include lectures, small group discussions, class presentations and case discussions (video and paper). Themes underpinning the course are a multilingual, multicultural society; provision of contextually relevant services; and developing agents for change.

DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.

Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.
AHS3103F  VOICE
15 NQF credits at HEQSF level 7
Convener: V Norman and L Russell
Course entry requirements: None
Course outline:
This course aims to apply the International Classification of Functioning, disability and health (ICF) framework to voice disorders and adult dysfluency. It develops the ability to describe and critically discuss the nature and aetiology of voice disorders and adult dysfluency; imparts knowledge of the principles and methods of voice and adult dysfluency assessment; and enables students to conduct a comprehensive management of the client with voice difficulties and adult dysfluency. Content includes laryngeal anatomy and physiology; nature, signs and symptoms of voice disorders and adult dysfluency; principles and nature of assessment; and differential diagnosis and management. Students learn skills of critical and analytical thinking and clinical reasoning. They learn the importance of empathy and respect and of a client-/caregiver-centred approach. Teaching and learning activities include lectures, case analyses and presentations, journal article reviews, observation of multi-professional management (stroboscopy clinic), and an analysis of audio and video recordings. Themes underpinning the course include disability and burden of disease, ethics and human rights, and bio-psycho-social models of health.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: Formative assessments – 60%; final summative examination – 40%.

AHS3104S  VESTIBULAR MANAGEMENT
15 NQF credits at HEQSF level 7
Convener: C Rogers
Course entry requirements: None
Course outline:
This course aims to enable the student to discuss the nature and impact of dizziness and vertigo, and to assess and manage vestibular disorders. Content includes the anatomy, physiology and pathology of vestibular and related balance disorders; clinical and technological assessments of vestibular disorders; and vestibular rehabilitation therapy. Students acquire skills of analysis and the interpretation of results of clinical and objective evaluation, as well as the ability to select the appropriate management paradigm. They learn that balance disorders are multifactorial in nature, that management is possible at all levels of care, and that the audiologist is an integral part of management. Teaching and learning activities include lectures, web-based learning, case study and group learning. Themes underpinning the course include disability and burden of disease, the bio-psycho-social model, and ethical conduct.
DP requirements: Attendance of all academic activities is required. Students are required to submit all coursework by the due date.
Assessment: The final course mark is made up of a coursework mark (weighted 60%) and an examination mark (weighted 40%). If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

AHS3105F  PUBLIC HEALTH AUDIOLOGY
15 NQF credits at HEQSF level 7
Convener: Associate Professor L Ramma
Course entry requirements: None
Course outline:
This course aims to enable students to describe and discuss frameworks for audiology service delivery in the public health sector; and to plan, implement and manage audiology services for the health of the public. Content includes noise and the health of the public, ototoxicity monitoring, cerumen management, and the management of hearing screening programs. Students acquire skills of critical and analytical thinking, knowledge translation, health communication, effective
communication with key stakeholders, skills in training of other health workers, and the ability to critique literature. They learn the importance of empathy, the ethical principle of respect, an appreciation of and willingness to address challenges, social responsibility, an appreciation of the value of prevention measures, and to promote healthy and safe acoustic environments. Teaching and learning activities include lectures, case studies, class debates, self-guided study and group learning. Themes underpinning the course are primary healthcare, the burden of disease, developing agents for change, equity and affirmation of diversity, and ethics and human rights.

**DP requirements:** Attendance at all academic activities is required. Students are required to submit all coursework by the due date.

**Assessment:** The final mark is made up of 60% coursework (includes formative and summative assessments) and 40% examination. If a supplementary examination is awarded it will count 40% of the final mark, as the coursework mark will still be included in the final mark.

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**AHS3107W  OCCUPATIONAL THERAPY THEORY AND PRACTICE IN PHYSICAL HEALTH**

38 NQF credits at HEQSF level 7; Lectures (51), tutorials (19), practice learning (20 weeks), site visits (2).

**Convener:** Dr A Sonday

**Course entry requirements:** AHS2043W, AHS2002W, HUB2015W, PRY2002W and PSY2013F

**Objective:** By the end of this course, students are able to select, apply and interpret appropriate assessment methods for determining performance enablers and performance components for a range of physical health conditions; develop and justify a client-centered occupational therapy plan to address performance enablers, performance components and occupational performance as appropriate; demonstrate skill in selecting, implementing and applying change modalities (including activity as means and occupation as an end) to enable performance and remediate performance component deficits; and begin to understand how policies inform service delivery and facilitate participation of people with a range of physical health conditions at an individual level.

**Course outline:**

This course enables students to demonstrate knowledge about and skills in promoting physical health and well-being through human occupation, and in addressing occupational implications of specific physical health conditions. It focuses on developing a client-centered occupational therapy plan that assists people with physical health concerns to participate in life through the everyday things that they need and want to do. Students learn to select, apply and interpret appropriate assessment methods for determining performance enablers and performance components for a range of ‘physical’ health conditions. Students develop skills in selecting, implementing and applying change modalities which enable performance and/or remediate performance component deficits. Students begin to understand how policies inform service delivery and facilitate participation of people with a range of ‘physical’ health conditions at an individual level.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and completion of all coursework by the due dates.

**Assessment:** Coursework assessments contribute 50% and comprise a written paper, an objective standardised practical examination (OSPE), practice learning demonstrations, student performance reports and case studies. The final examinations contribute 50% to the final mark and comprise a written paper, an objective standardised practical examination and practice learning demonstration, as well as student performance reports.
AHS3108W  OCCUPATIONAL THERAPY THEORY AND PRACTICE IN MENTAL HEALTH
38 NQF credits at HEQSF level 7; Lectures (51), tutorials (19), practice learning (20 weeks), site visits (2).
Convener: S Allie
Course outline:
This course focuses on promoting mental health and well-being through human occupation and addresses occupational implications of specific mental health disorders. Students develop a client-centred occupational therapy plan to assist people with mental health concerns to participate in everyday life. They select, apply and interpret appropriate assessment methods for psycho-social performance impairments and occupational performance enablers and apply change modalities that address psycho-social impairments and promote people’s engagement in valued life tasks and roles. They learn how policies inform mental health service delivery and their role in addressing psychiatric disability. By the end of this course, students have knowledge about mental health and the occupational performance implications of mental disorders; can implement an occupational therapy process with individuals and groups of mental health service users; can use and interpret standardised and non-standardised OT assessments; and can apply knowledge, skill and attitudes in client-centred, professional interactions with individuals who have a psychiatric illness. They also have skill in altering, adapting and creating optimal environments that support participation and occupational performance during and following an emotional crisis or mental health episode or when structural risks exist that impact adversely on people’s mental health.
Lecture times: Monday – Friday 09h00-16h45 when there is no Practice Learning. Mondays only during Practice Learning blocks.
DP requirements: Full attendance at and participation in practice learning; and completion of all course requirements by the due dates.
Assessment: Coursework assessments contribute 50% and comprise a written paper, an objective standardised practical examination, practice learning demonstrations, student report forms and case studies, and a mental health assignment. The final examinations contribute 50% to the final mark and comprise a written paper, an objective standardised practical examination, practice learning demonstrations and student report forms.

AHS3113W  FOUNDATION THEORY FOR OCCUPATIONAL THERAPY PRACTICE I
26 NQF credits at HEQSF level 7; 85 Lectures.
Convener: Dr M Ramafikeng
Course outline:
This course includes occupational therapy models and philosophy, theories of empowerment and development, equity and diversity, and disability in primary healthcare. Themes underpinning the course are primary healthcare and contextual relevance and developing agents for change. Course objectives include skills of knowledge translation, problem-solving, professional writing and presentation, ethical reasoning and an attitude of professionalism. Teaching and learning activities include lectures, small group discussions, class presentations, and visits to service sites. By the end of this course, students will be able to understand the philosophy of client-centered practice; demonstrate competence in following the occupational therapy process; demonstrate skill in selecting, implementing and applying activity as a means and occupation as an end; understand and work effectively with diversity in context; understand professional and ethical use of self in relationships with individuals, groups, and other stakeholders; demonstrate an ability to select and apply an appropriate OT practice model matched to the client; demonstrate skill in documenting OT plans; demonstrate skill in using the five modes of clinical reasoning; and demonstrate a multidisciplinary approach.
DP requirements: Attendance at all lectures; completion of all coursework by the due dates.
Assessment: Coursework assessments contribute 50% to the final mark and comprise a written paper, assignments and small group projects. The final examination contributes 50% to the overall mark and comprises a written paper.

AHS4000W  RESEARCH REPORT
30 NQF credits at HEQSF level 8
Convener: T Cloete
Course entry requirements: None
Course outline:
The aim of this course is the formulation of a research proposal with guidance. Students learn to review and critique the literature; plan and manage data collection; analyse and interpret results; and describe, discuss, critique and present (oral and written) research findings. Content includes topic definition, quantitative and qualitative research methods, proposal writing, literature review, data management, research ethics, and referencing. Students learn skills of working in teams; identifying, reviewing and critiquing appropriate literature; academic writing; succinct reporting and the interpretation of results. They learn the importance of appreciating individual and group contributions, develop awareness of personal bias, and acquire a willingness to accept feedback. Teaching and learning activities include workshops, lectures, group-work, supervision sessions, written feedback on drafts, and oral presentations. Themes underpinning the course are primary healthcare and contextual relevance, disability and burden of disease, ethics and human rights, bio-psycho-social models of health, developing agents for change, and equity and affirmation of diversity.
DP requirements: Attendance of all academic activities, supervision sessions, workshops and presentations, and participation in group-work.
Assessment: Minimum of five formative assessments; presentations: 20% and a written research report: 80%.

AHS4005H  CLINICAL SPEECH THERAPY IIIA
45 NQF credits at HEQSF level 8
Convener: C Samuels
Course entry requirements: AHS3004H
Course outline:
This course aims to enable the student to demonstrate professional conduct; to conduct independent assessment and comprehensive evidence-based management of speech, language, communication, feeding and swallowing in children and adults across the continuum of care (prevention, promotion, curative, rehabilitation) in a variety of contexts and levels of care (primary, secondary, tertiary); and to learn skills enabling the independent planning and management of service delivery at sites. Students rotate through a number of clinical blocks and sites during the year. They learn to problem-solve, communicate effectively; engage in clinical reasoning; and to plan, implement, manage and evaluate service delivery programmes. They learn the skill of reflection; of needs analysis; of community engagement; and of competent clinical practice. They learn that ethical practice is vital and that collaborative, client- and family-centred intervention is key to best practice. Teaching and learning activities include the observation and modelling of experienced clinicians, service provision, clinical practice, team-work, tutorials and workshops, and written reports. Themes underpinning the course are primary healthcare, ethics and human rights, equity and affirmation of diversity, developing agents for change, disability and burden of disease, and evidence-based practice.
DP requirements: Minimum of 80% attendance at clinics; completion of all coursework by the due dates; professional conduct.
Assessment: Formative assessments; summative assessments during each clinical block contribute to 60% of course mark; final qualifying examination in June contributes 40% of course mark.
AHS4006H CLINICAL SPEECH THERAPY IIIB
45 NQF credits at HEQSF level 8
Convener: C Samuels
Course entry requirements: AHS3004H, AHS3072S and AHS3102S (see FBC 5.13).
Course outline:
This course aims to enable the student to demonstrate professional conduct; to conduct independent
assessment and comprehensive evidence-based management of speech, language, communication,
feeding and swallowing in children and adults across the continuum of care (prevention, promotion,
curative, rehabilitation) in a variety of contexts and levels of care (primary, secondary, tertiary); and
to learn skills enabling the independent planning and management of service delivery at sites.
Students rotate through a number of clinical blocks and sites during the year. They learn to problem-
solve, communicate effectively, engage in clinical reasoning, and to plan, implement, manage and
evaluate service delivery programmes. They learn the skill of reflection, of needs analysis, of
community engagement, and of competent clinical practice. They learn that ethical practice is vital
and that collaborative, client- and family-centred intervention is key to best practice. Teaching and
learning activities include the observation and modelling of experienced clinicians, service
 provision, clinical practice, team-work, tutorials and workshops, and written reports. Themes underpinning the course are primary healthcare, ethics and human rights, equity and affirmation of
diversity, developing agents for change; disability and burden of disease, and evidence-based
practice.
DP requirements: Minimum of 80% attendance at clinics; completion of all coursework by the due
dates; professional conduct.
Assessment: Formative assessments; summative assessments during each clinic block contribute
to 60% of course mark; final qualifying examination in November contributes 40% of course mark.

AHS4008H CLINICAL AUDIOLOGY IIIA
45 NQF credits at HEQSF level 8
Convener: G Gonsalves
Course entry requirements: AHS3008H
Course outline:
The key focus of this clinical course is paediatric and adult assessment and management. Teaching
takes place at a variety of clinical sites which may include secondary and tertiary hospitals,
community clinics, university clinics, schools for children who are deaf/hard-of-hearing, and
occupational settings. Each student is exposed to each of the major rotations although sites may
differ. The course descriptors reflect learning across all four clinical blocks. Intended learning
outcomes include a demonstration of professional conduct, an independent assessment and
evidence-based management of adults and children with hearing and vestibular difficulties across
the continuum of care (prevention, promotion, curative, rehabilitation) in a variety of contexts and
levels of care (primary, secondary, tertiary). Teaching and learning activities include observation
and modelling of experienced clinicians, service provision, clinical practice, teamwork, tutorials and
workshops, and written reports. Themes underpinning the course are primary healthcare, ethics and
human rights, equity and affirmation of diversity, developing agents for change, disability and
burden of disease, and evidence-based practice.
DP requirements: Minimum 80% attendance at all clinics; completion of all coursework by the due
dates; professional conduct.
Assessment: Formative assessments; summative assessments during each clinical block contribute
to 60% of the course mark; final qualifying examination in June contributes 40% of the course mark.
AHS4009H  CLINICAL AUDIOLOGY IIIB
45 NQF credits at HEQSF level 8
Convener: G Gonsalves
Course entry requirements: AHS3008H, AHS3065S, AHS3075S and AHS3104S (see FBC 5.14).
Course outline:
The key focus of this clinical course is paediatric and adult assessment and management. Teaching takes place at a variety of clinical sites which may include secondary and tertiary hospitals, community clinics or university clinics, schools for children who are deaf/hard of hearing, and/or occupational settings. Each student is exposed to each of the major rotations, although sites may differ. Intended learning outcomes include a demonstration of professional conduct; and of independent assessment and the evidence-based management of adults and children with hearing and vestibular difficulties across the continuum of care (prevention, promotion, curative, rehabilitation), in a variety of contexts and levels of care (primary, secondary, tertiary). Teaching and learning activities include observation and modelling of experienced clinicians, service-provision, clinical practice, teamwork, workshops and written reports. Themes underpinning the course are primary healthcare, ethics and human rights, equity and affirmation of diversity, developing agents for change, disability and burden of disease, and evidence-based practice.
DP requirements: Minimum 80% attendance at all clinics; completion of all coursework by the due dates; and professional conduct.
Assessment: Formative assessments; summative assessments during each clinical block contribute to 60% of course mark; final qualifying examination in November contributes 40% of course mark.

AHS4065W  CLINICAL PHYSIOTHERAPY III
98 NQF credits at HEQSF level 8
Convener: N Edries-Khan
Course entry requirements: All third year courses. Registration with the South African Society of Physiotherapy is encouraged).
Course outline:
This course provides clinical exposure to the areas of paediatrics, cardiopulmonary, orthopaedic, neurological, musculoskeletal and other tertiary level skills as well as a community placement. Students spend approximately 30 hours per week in clinical areas, working under supervision with patients/clients. This course is taught entirely through clinical practice and group teaching sessions.
Lecture times: Mon, Tues and Thurs 08h00-15h30; and Wed & Fri 08h00-12h00.
DP requirements: An electronic pre-block test must be completed prior to the start of the ICU placement. Students who do not achieve a minimum of 60% for the ICU pre-block test will NOT be allowed to manage ICU patients and will be expected to shadow the clinician in ICU and only treat ward patients independently until they pass the additional test. A second opportunity to re-write the test will be arranged with the relevant students. If by the end of week 2 of the block the student still hasn’t passed the pre-block test, the student will be removed from the block and will be required to re-do the entire block at a time arranged by the course convenor and the clinical placement.
Assessment: This course is assessed via Continuous assessment on five clinical modules/blocks and one additional unseen examination. The pass mark for the course is 50%. This is calculated as an average of all clinical module/block marks plus the additional exam. Each module/block comprises of a block performance mark (40%) and a patient examination (60%). In some placements the patient examination may be replaced by a patient-based presentation. If a student obtains 50% or more by the end of the course, they will have passed. Opportunities exist for remediation and reassessment: If a student receives 50%, but has failed 2 of the 6 assessments, they will be offered an opportunity for remediation and additional assessment. This new assessment mark will replace the previous lowest mark and the final course mark will be re-calculated. A subminimum of 50% applies for this additional assessment. If the student receives below 50% for this assessment, the course will still be failed, and this mark will reflect as “Unclassified fail (UF).” If a student obtains a final course score of between 48-50%, they will be offered an opportunity for remediation and additional assessment, in the area in which they received their lowest mark. The additional period for remediation will be after the November examination period. This new assessment mark will
AHS4066F/S  BECOMING A REHABILITATION PROFESSIONAL II
4 NQF credits at HEQSF level 8
Convener: Associate Professor S Maart
Course entry requirements: AHS3070H
Course outline:
The emphasis of the course is on developing appropriate knowledge, skills and attitudes for independent physiotherapy practice. This course includes two modules viz Professional Ethics and Practice Management.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: Assignment 30%; Written test 30% ; and Final examination 40%. Should a student obtain between 45 – 49% in the final mark, they may be offered an additional assessment before the final mark is submitted. Students who obtain a final mark below 50% will be required to repeat the course the second semester.

AHS4067S  SEMINARS IN COMMUNICATION SCIENCES
4 NQF credits at HEQSF level 8
Convener: O Mahura
Course entry requirements: None
Course outline:
The aims of this course are: To enable students to review and critique literature; develop and present integrated and coherent oral and written arguments; and facilitate academic discussion and debate. Content includes topical and professional issues in audiology and speech-language pathology (SLP). Students acquire skills of knowledge translation; they develop academic writing skills through the ability to integrate and critique relevant literature; and learn the skill of self-directed learning for continuing professional development. They acquire an appreciation of the professions in context. Teaching and learning activities include guided self-study, small group discussions, tutorials and class presentations. Themes underpinning the course include the provision of contextually relevant services in a multilingual, multicultural society, evidence-based practice and developing agents for change.
DP requirements: Attendance of all academic activities and participation in group-work, tutorials and presentations.
Assessment: Written work 60%; and Oral presentation 40%.

AHS4071F/S  APPLIED PHYSIOTHERAPY III
20 NQF credits at HEQSF level 8
Convener: S Manie
Course entry requirements: AHS3077H
Course outline:
The course comprises of components on Cardiopulmonary, Musculoskeletal and Neurological physiotherapy; Chronic Pain and Pharmacology. The course will be delivered via workshops and tutorials.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: The assessment is weighted as follows: Theory test/assignment (10%); Theory test and practical test (OSCE) (35%); Theory test/assignment (15%); Final theory examination (40%). A student who obtains between 45 - 49% for their final mark may be offered an additional oral or written assessment before the final mark is submitted. A student who obtains less than 50% will need to repeat the course in the second semester.
AHS4072H  RESEARCH METHODS AND BIOSTATISTICS II
10 NQF credits at HEQSF level 8
Convener: Dr G Ferguson and Dr N Naidoo
Course entry requirements: AHS3078H and all other third year courses.
Course outline:
Students, working in groups, prepare a 3500-word literature review and will conduct a research project that will be documented as a scientific article of no more than 3500 words.
Assessment: The allocation of marks is as follows: Literature review (35%), Thesis submission (50%) and thesis presentation (15%). Individual student’s contribution to the project will be peer evaluated and this mark will contribute 10% to each of the above allocated marks.

AHS4119W  OCCUPATIONAL THERAPY RESEARCH AND PRACTICE MANAGEMENT
48 NQF credits at HEQSF level 8
Convener: L Peters
Course entry requirements: AHS3078H, AHS3107W, AHS3108W, AHS3113W and SLL1028H or SLL1048H
Course outline:
This course equips students with the knowledge, skills and attitudes required for learning through research, effective management and leadership, and a sound appreciation of OT philosophy and ethics. Students enter with a completed research proposal developed in AHS3078H. They implement and document a research project and acquire skill in writing and presenting findings to professional and stakeholder audiences. Content includes organisational development, practice management and service administration. Core functions include marketing, human resources, project and financial management and the theory of planning, implementing and evaluating health and development programmes across a range of public and private sectors. At the end of this course, students can demonstrate knowledge, skills and attitudes required for rigorous and ethical OT; are able to implement evidence-based OT interventions; appreciate relationships between management functions of controlling, leading, planning and organising in OT practice contexts; describe organisational development; recognise dynamics within an organisation; and identify strategies for working within the limitations imposed by these dynamics. They also understand core principles of operations management, financial management, project management, strategic management and marketing in OT.
DP requirements: Attendance at all lectures; completion of all coursework by the due dates.
Assessment: Coursework assessments contribute 50% to the final mark and comprise a group research project and a June test. The final examinations contribute 50% to the overall mark and comprise a policy brief and a written paper.

AHS4120W  FOUNDATION THEORY FOR OCCUPATIONAL THERAPY PRACTICE II
48 NQF credits at HEQSF level 8
Convener: Dr P Gretschel and L Peters
Course entry requirements: AHS3113W
Course outline:
This course focuses on occupation-based approaches to human and social development appropriate for the health needs of individuals, groups and populations across the life span within the South African context. The application of OT for the promotion of well-being and full participation of people with disabilities and people at risk of health and social marginalisation is explored. Disability and diversity politics, legislation and policies lay the foundation for understanding the contribution of occupational therapy to social change. Content also includes OT principles of promotive, preventive, therapeutic and rehabilitative practice, as these relate to the primary healthcare philosophy. Clinical, population and professional reasoning is developed, as is an occupation-focused understanding of contexts in which people play, learn, live, work and socialise. Students
learn how policy applies to OT practice and how OT practice can promote social inclusion and participation. They analyse health, education/labour and social development policies in relation to occupational needs; influences shaping the world of work, play, learning and development; learn to appreciate the value of play as to promote development and health; learn to understand the occupational therapist’s role in promoting occupational engagement; learn to identify actions promoting occupational justice; and learn to design appropriate interventions.

**DP requirements:** Attendance at all lectures; completion of all coursework by the due dates.

**Assessment:** Coursework assessments contributes 50% to the final mark and comprise a work practice strategies assignment, a child learning development and play assignment, a community development practice assignment and a June test paper. Final assessment contributes 50% to the course mark and comprises a written examination paper.

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AHS4121W  OCCUPATIONAL THERAPY PRACTICE AND SERVICE LEARNING

48 NQF credits at HEQSF level 8; Lectures (4), tutorials (9), practice learning (21 weeks).

**Convener:** L Peters and T Mohomed

**Course entry requirements:** AHS3107W and AHS3108W

**Course outline:**
This course applies OT learning theory and processes in direct and indirect service to individuals, groups and communities to attain health and development objectives through occupation. An OT perspective of public health and the primary healthcare approach forms the basis of practice. Students acquire skills in the design and implementation of appropriate, comprehensive OT programmes, in collaboration with role-players. Knowledge, skills and attitudes, including clinical and population-based reasoning and reflection, are developed. The course provides learning environments across health and socio-economic conditions, age groups, settings and sectors for each individual student within available resources. At the end of this course, the student can identify occupational injustice; facilitate co-operation between government sectors; promote inclusive environments within policy frameworks; interpret limitations in or barriers to occupational performance; select, use and justify conceptual frameworks and change modalities to promote play, learning and development informed by evidence-based practice; contribute to children’s development from an OT perspective; recommend enhancing opportunities for work entry/re-entry; implement a community-based OT programme or project using a developmental approach; and apply occupation-based methods that support social action.

**DP requirements:** Attendance at all practice-learning placements and practice-learning tutorials.

**Assessment:** Coursework assessments contribute 55% which will be converted to 50% to the final mark and comprise practical demonstrations and a practice-learning student performance report. The final examinations contribute 50% to the overall mark and comprise a portfolio, a video and oral of students’ work with a client, group or organisation, as well as an objective standardised practical examination.
HEALTH SCIENCES EDUCATION

E52, Old Main Building, Groote Schuur Hospital

Professor and Head of Department:
FJ Cilliers, MBChB BScHons (Medical Science) MPhil Stell PhD Maastricht

Administrative Assistant and PA to HoD:
I Ntshwanti

Chief Scientific Officer:
G de Bie, BSc Rhodes BScHons Free State MPhil Stell PhD Rhodes

Programme Administrator (Postgraduate):
S Nutt, BA PGCE PGDip (HIV/AIDS Management) Stell

Clinical Skills Unit
G13, New Groote Schuur Hospital

Senior Lecturer & Acting Director:
R Weiss, MBChB MPhil PhD Cape Town

Lecturer:
M Jansen, NDip (Emergency Medical Care) B (Emergency Medical Care) CPUT MPhil (Emergency Medicine) Cape Town

Clinical Educators:
S Billington, BSc MBBS London MFamMed RCGP
S Buthelezi, BNurs MNurs (Nursing Education) UWC
G Edelstein, RN RM Dip IntN Dip CHN DNE MPhil Cape Town

Technical Assistants:
F Adams
A Gelderbloem

Intervention Programme

Co-ordinator and Senior Lecturer (MBChB programme):
E Badenhorst, BAHons Stell MPhil Cape Town

Co-ordinator and Senior Lecturer (Health and Rehabilitation programme):
BO Ige, BAHons Ilorin Nigeria PGDip (Health Professional Education) Cape Town MA PhD UKZN

Education Development Unit

E52, Old Main Building, Groote Schuur Hospital; G13, New Groote Schuur Hospital and Level 2, Anatomy Building

Senior Lecturer and Acting Director: Education Development Unit
BO Ige, BAHons Ilorin Nigeria PGDip (Health Professional Education) Cape Town MA PhD UKZN
Senior Secretary:
C Joseph

Senior Lecturer:
N Hartman, BA Stell BSocScHons MSocSc PhD Cape Town

Lecturer:
L Pienaar, BSc (Physiotherapy) UWC MSc (Physiotherapy) Stell

IT Education Manager:
G Doyle, BScHons HDE Rhodes MSc (Information Technology) Cape Town

E-Learning Technologists:
S Mandyoli, BAHons UWC
D Sias, BA HDE BEdHons UWC BPhil Stell PGDip (Educational Technology) Cape Town
F van Breda, ND CPUT BA (Communication Science) Unisa

Web developer (e-learning):
F Hendricks, BA UNISA

The Writing Lab
E53 – 27, Old Main Building, Groote Schuur Hospital

Co-ordinator and Lecturer:
N Muna, PhD Cape Town

Lecturer:
T Moola, BSc UKZN BSocHons (Medicine) PGCE MSc (Medicine) Cape Town

Consultants:
S Louw
K Montjane
N Mthembu
E Nwosu, MSc

HSE1001S FUNDAMENTALS OF INTEGRATED HEALTH SCIENCES PART I
0 NQF credits at HEQSF level 5
Convener: E Badenhorst
Course entry requirements: None
Course outline:
This course revisits the content of HUB1006F. As in HUB1006F, students study the health and well-being of the whole person (bio-psycho-social model) through each of the phases of the life cycle. Learning activities are structured such that students acquire a basic understanding of the key physical, psychological, socio-cultural and developmental factors and issues that shape the life cycle. The course aims to develop skills, knowledge and attitudes that will enable students to overcome learning obstacles encountered in HUB1006F. On-going analysis of student performance identifies the skills that require targeted attention. Students receive guidance in developing the relevant language and cognitive skills essential for an integrated study of the health sciences. Their computer and information literacy skills are strengthened, and they explore and apply appropriate orientations to learning. The basis for scientific understanding is taught by integration through clinical reasoning sessions, lectures, tutorials and practicals to give students the opportunity to refine key life skills (e.g. an ability to work effectively in a team, problem-solve, and think critically) that are the central requirements for being an effective healthcare professional.
DEPARTMENTS IN THE FACULTY

DP requirements: Attendance of and participation in all activities: PBL, lectures, tutorials, practicals; completion of all set assignments by the due dates and completion of all assessment activities. Absence on the ground of illness requires a medical certificate. Validity of absence on other grounds will be considered on an individual basis.

Assessment: This comprises two written in-course assessments and a portfolio of semester work assessing academic literacy skills. There is no final examination for this course. Overall marks for the course comprise 45% for basic sciences; 40% for psycho-social/public health; and 15% for the portfolio. The psycho-social/public health mark is made up of 30% discipline-specific material and 10% quantitative literacy skills. Students are required to obtain an overall pass mark of at least 50% and (unless otherwise specified) to pass each of the subcomponents of the course with at least 50%. The overall mark for HUB1010S contributes 40% towards the year mark for HUB1011F.

HSE1002F  FUNDAMENTALS OF INTEGRATED HEALTH SCIENCES PART II
105 NQF credits at HEQSF level 5
Convener: E Badenhorst
Course entry requirements: HUB1010S
Course outline:
This course builds on the knowledge, skills and attitudes acquired in HUB1010S, and prepares students for IBS1007S Introduction to Integrated Health Sciences Part II. In HUB1011F, attention is focused on the core principles and concepts of the basic health sciences (anatomy, physiology and biochemistry), physics, primary healthcare, and public health.

DP requirements: Attendance of and participation in all academic activities (PBL, lectures, tutorials, practicals); completion of all set assignments; and sitting all assessment activities.

Assessment: This comprises three written assessments that examine the range of knowledge, skills and attitudes developed during this course. These assessments contribute 60% of the total mark, and a final end-of-course examination contributes 40% of the mark. The overall mark for the course comprises 60% of marks acquired in HUB1011F and 40% of the total HUB1010S mark. Students are required to pass each of the subcomponents of the course with at least 50%.

HSE1003S  PREPARATION FOR ENTRY-LEVEL PSYCHOLOGY FOR HEALTH AND REHABILITATION SCIENCES PART I
The credits are included in those for PSY1104F.
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and E Badenhorst
Course entry requirements: None
Course outline:
This course develops and strengthens students’ understanding of the basic psychological concepts, principles and terminology introduced in semester one by revisiting material covered in PSY1004F. Students are introduced to the building blocks, core principles and concepts of PSY1004F, such as learning, memory, developmental psychology, health psychology and psychopathology, in order to develop and strengthen a basic knowledge of central areas in psychology. The course also develops and strengthens empirical skills in order to allow students to critically assess studies on which psychological theory is based. Students engage with the discipline in a critical and analytical way by revisiting the core principles of theory and research. In order to familiarise students with the modes of learning that will be required of them upon entry into PSY1005S, as well as the style of instruction they will encounter in the course, students attend lectures and small group tutorials to develop academic skills and techniques. The outcome of AHS1031S is a fundamental understanding of psychology, an ability to look critically at concepts and theories in the discipline, and an understanding of the practical application of psychology in everyday life and in students’ future professions.

DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials. All assignments must be submitted by their due date.
Assessment: In-course assessment contributes 60% and comprises one essay (10%), one research project essay (15%), tutorial assignments (10%) and two tests (25%). The final written test contributes 40%.

HSE1004S  FUNDAMENTALS OF SPEECH AND HEARING SCIENCES
18 NQF credits at HEQSF level 5
Convener: Associate Professor L Ramma and Dr B Ige
Course entry requirements: None
Course outline:
This foundation (Intervention Programme) course revisits the core areas of AHS1003F Speech and Hearing Science and aims to facilitate a basic understanding of the nature of sound, how sound is perceived by humans and how human speech is produced. Course content includes basic numeracy skills; introductory physics relating to the characteristics, behaviour and phenomena of sound waves; as well as the concepts of frequency, intensity, phase and resonance as they relate to speech production and hearing (including measurement and perceptual correlates). Teaching/learning methods include lectures, demonstrations, practical work, tutorials and self-directed learning sessions. At the end of the course, the student will understand and describe the nature of sound, how humans hear and how speech is produced.

DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials. Students are required to complete all coursework.
Assessment: Coursework contributes 60% and comprises two tests (weighted at 20% each) and a written course assignment (20%). The examination contributes 40% to the final mark. Students who fail the final assessment may be required to register for a summer term course and write another examination in the same year.

HSE1005S  FOUNDATIONAL CONCEPTS IN HUMAN COMMUNICATION DEVELOPMENT
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and Associate Professor M Pascoe
Course entry requirements: None
Course outline:
This foundation (Intervention Programme) course revisits key concepts of AHS1042F Human Communication Development. Content includes the scope of speech-language pathology and audiology practice; the communication chain; anatomy and physiology of speech and hearing; sign language development; principles and frameworks for understanding normal development; as well as key aspects of communication development in children aged 0-3 years, 3-6 years, 6 years and beyond. Students develop skills in profiling a child’s development in relation to expected milestones and perform materials development. They develop attitudes that appreciate the influence of culture and individual differences on communication development. Teaching activities comprise small group discussions; class presentations; demonstrations, practical work, self-study and tutorials. Themes underpinning the course include primary healthcare and contextual relevance; a multilingual, multicultural society; ethics and human rights.

DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials; completion of all coursework by the due dates.
Assessment: Coursework contributes 60% and comprises a test weighted at 30% and a second assessment weighted at 30%; the final examination contributes 40% to the final mark. Students who fail the final assessment may be required to register for a summer-term course and write another examination in the same year.
HSE1006F  FOUNDATIONAL CONCEPTS IN EARLY INTERVENTION
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and V Norman
Course entry requirements: None
Course outline:
This foundation (Intervention Programme) course aims to prepare students for what they will encounter in AHS1025S Early Intervention upon re-entry into the standard curriculum. The rationale for early intervention in speech-language therapy and audiology practice is introduced. Primary healthcare principles are explained in relation to the promotion of normal communication development, prevention of communication disorders, and identification and intervention in speech language therapy and audiology. Early childhood intervention is described and discussed with particular reference to risk populations. Different models of service delivery at various levels of healthcare are discussed. Some aspects of assessment will be introduced.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and completion of all coursework.
Assessment: Coursework contributes 60%; it comprises a written in-course summative assignment (40%) and a second summative assignment (20%). The final examination contributes 40% to the final mark.

HSE1007F  FOUNDATIONS OF HEARING AND BALANCE
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and C Rogers
Course entry requirements: None
Course outline:
This is a foundational (Intervention Programme) course that prepares students for AHS1045S Basis of Hearing and Balance for which they register upon re-entry into the standard curriculum. The course addresses the anatomy and physiology of hearing as well as various pathologies of hearing (including embryological and genetic factors). Course content includes anatomy of the outer, middle and inner ear; eighth cranial nerve; auditory pathways and the auditory cortex; the physiology of hearing; and pathologies of the ear and hearing systems. Teaching/learning methods include lectures, demonstrations, practical work, tutorials and self-directed learning sessions. At the end of this course students should be able to describe the anatomy of the hearing and balance structures and mechanism; describe the physiology of hearing and balance; describe pathologies that impact hearing and balance ability; and apply the knowledge gained in the promotion of hearing, prevention of disease and education of peers.
DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials and completion of all coursework by the due dates.
Assessment: Coursework contributes 60% and comprises assessments weighted at 20% and 40% respectively, and a final examination is weighted 40%.

HSE1008S  FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY IA
0 NQF credits at HEQSF level 5
Convener: Dr A Abrahams and Dr B Ige
Course entry requirements: None
Objective: At the end of the course students, should be able to: a) Understand the level of organisation of the human body; b) Understand homeostasis and cellular physiology; c) Describe the generation and propagation of action potentials; d) Describe the anatomy of the upper limb which includes bone, muscle, nerves and blood vessels and e) Understand the relevance of the selected systems for the physiotherapy and occupational therapy professions.
Course outline:
This foundation (Intervention Programme) course revisits the key concepts and core material of HUB1019F Anatomy and Physiology IA. Course content addresses the fundamental anatomical and physiological knowledge and skills relevant to the rehabilitation sciences professions and includes
an overview of cells and systems in the human body; cellular physiology; physiology of nerves; and the anatomy of the upper limbs. The relevance of these concepts for the rehabilitation professions is emphasised through the use of specifically selected examples of injury, health conditions and disability. Attention is given to the specific terminology of the anatomy and physiology disciplines, as well as to the underlying scientific literacy and numeracy skills required to achieve proficiency in these areas. At the end of the course, students will be able to describe the anatomy of the upper limb, explain the basic physiological and anatomical concepts and processes outlined above, and give an overview of human physiology from the level of cells to the whole body. Teaching and learning strategies include lectures, tutorials, practical sessions, clinical case discussions and self-directed learning sessions.

**Lecture times:** Monday (09h00-10h45), Tuesday (11h00-12h45), Thursday (12h00h-12h45) and Friday (09h00-09h45).

**DP requirements:** Students are expected to attend and participate in all lectures, practical sessions and tutorials. All assignments are to be submitted by the due date. Students will be required to sign an attendance register at all sessions and complete a course evaluation at the end of the semester.

**Assessment:** Assessment of the course comprises written assignments and in-course assessments. The in-course mark contributes 50% to the final mark and comprises two tests (each weighted 15% and contributing 30% towards the in-course mark); and physiology and anatomy assignments (contributing 20% towards the in-course mark). The final written test contributes 50% to the final mark for HSE1008S. These assessments contribute 40% towards the final year mark in HSE1009F at the end of IP2.

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**HSE1009F  FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY IB**

36 NQF credits at HEQSF level 5

**Convener:** Dr A Abrahams and Dr B Ige

**Course entry requirements:** None

**Course outline:**

This foundation (intervention programme) course aims to prepare students for HUB1020S Anatomy and Physiology IB, which they will be required to register for when they re-enter the standard curriculum. It revisits key concepts and core material of HUB1019F and builds on knowledge and skills acquired in HSE1008S. It focuses on key systems within the human body. Content includes the physiology of muscle, the cardiovascular system, the respiratory system, and the anatomy of the lower limb. The underlying physiological concepts, principles and mechanisms and relevant structural anatomy of the thorax, heart and lungs are presented in an integrated manner. Carefully selected studies relate the cases to the clinical practice of occupational therapy and physiotherapy. Specific terminology of the anatomy and physiology disciplines is included, and underlying scientific literacy and numeracy skills are developed. Teaching/learning strategies include lectures, tutorials, practical sessions, clinical case discussions and computer-aided learning sessions. At the end of this course, students will be able to describe the anatomy of the lower limb; explain key concepts in the normal physiology of muscle and nerve cells; describe the anatomy of the thorax, heart, blood vessels and lungs; explain key concepts in the normal physiology of the cardiovascular and respiratory systems; and explain how the cardiovascular and respiratory systems work together.

**Lecture times:** Monday and Tuesday (09h00-10h45), Wednesday (14h00-14h45) and Friday (09h00-09h45).

**DP requirements:** Students are expected to attend and participate in all lectures, practical sessions and tutorials. All assignments are to be submitted by the due date. Students will be required to sign an attendance register at all sessions and complete a course evaluation at the end of the semester.

**Assessment:** Assessment of the course comprises a written in-course assessment and a final course examination. The in-course assessment consists of two tests (each weighted 15% and contributing 30% towards the in-course mark); physiology and anatomy assignments (contributing 20% towards the in-course mark). The final written examination contributes 50% towards the final mark. These assessments and examination contribute 60% towards the final year mark at the end of IP2.
### HSE1010S  FUNDAMENTALS OF HUMAN OCCUPATION AND DEVELOPMENT IA

*The credits are included in those for HSE1011F.*

0 NQF credits at HEQSF level 5  
**Convener:** Dr B Ige and H Flieringa  
**Course entry requirements:** None  
**Course outline:**  
This foundational (Intervention Programme) course revisits key concepts of AHS1035F Human Occupation and Development. The course develops students’ procedural and critical thinking by exploring how basic concepts and theories in occupational therapy, including definitions, terminology, classification and professional values, are applied in practice. By engaging with people of different ages in various practice learning contexts, students gain a deeper appreciation of human development across the lifecycle. An integrated understanding of self-care, productivity and leisure unfolds as students explore these dimensions of occupational performance across the lifespan in relation to ability, culture and context. By the end of this course, students will be able to defend, in verbal and written form, using at least two occupational theories, their stance on the notions of ‘doing’, ‘being’ and ‘becoming’ as applied to their personal participation in selected occupations; execute and document with reasoned explanations a detailed macro and micro activity analysis on a selected occupation; retrieve, analyse and use literature to explain various dimensions of human development as evidenced in the performer/’doer’ of a selected occupation; and explain and critique a range of occupational therapy terms and taxonomies in relation to their origins, meanings and relevance in context.  
**Lecture times:** Monday and Tuesday (14h00-16h00), and Thursday (09h00-11h00).  
**DP requirements:** Students are expected to attend and participate in all learning activities – lectures, self-studies, tutorials and practice learning visits. All self-study tasks must be completed by the due dates.  
**Assessment:** Assessment comprises continuous assessment tasks (weighted 10%), which include class tests, learning paragraphs and oral presentations; two assignments (weighted 10% and 20% respectively); and two tests (weighted 20% and 40% respectively). These assessments contribute 40% towards the final year mark in HSE1011F at the end of IP2. There is no summative examination for this course after IP1. The final assessment takes place in HSE1011F.

### HSE1011F  FUNDAMENTALS OF HUMAN OCCUPATION AND DEVELOPMENT IB

48 NQF credits at HEQSF level 5  
**Convener:** Dr B Ige and H Flieringa  
**Course entry requirements:** HSE1010S  
**Course outline:**  
This foundational (Intervention Programme) course prepares students for what they will encounter in AHS1035F Human Occupation and Development when they re-enter the standard curriculum. It develops students’ analytical thinking by exploring the relationship between what people do and their health, well-being and quality of life. By investigating the environments in which people function, students learn to appreciate the needs, aspirations and capabilities of humans as occupational beings. By the end of the course, students can execute a detailed macro and micro analysis of an activity performed by able and disabled people using a range of different approaches [e.g. Hagedorn, Cynkin and ICF] and identify links with psychology, anatomy and physiology; execute a basic ergonomic analysis of a selected occupational performance challenge experienced by a disabled person in context; identify and provide a rationale for the environmental determinants that influence what, why, when, where, how and with whom people do the things they do every day; identify and explain various forms of occupational risk factors; and draw on a range of sources (electronic, experiential, and documented) to critique and defend the values and philosophy of occupational therapy as evidenced in practice.  
**Lecture times:** Monday and Tuesday (14h00-16h00) and Thursday (09h00-11h00).
**DP requirements:** Students are required to attend and participate in all learning activities – practice learning visits, lectures, self-studies and tutorials. All self-study tasks must be completed by the due dates.

**Assessment:** This comprises continuous assessment tasks including class tests, learning paragraphs and oral presentations (weighted 10% towards the final mark); two assignments (weighted 15% each); two tests (weighted 15% each); and an examination that contributes 30% to the final mark.

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**HSE1012S  FUNDAMENTALS OF BIOSCIENCES FOR PHYSIOTHERAPY IA**
0 NQF credits at HEQSF level 5; Four lectures and two tutorial sessions a week per term.

**Convener:** Dr NTL Chigorimbo-Tsikiwa, Dr B Ige and Associate Professor S Sivarasu

**Objective:** Physics: To equip students with basic skills to assess simple problems involving forces and torques in systems and to predict what forces and torques are required to cause motion. Chemistry: To provide students with a basic understanding of the principles of physical Chemistry and how they relate to the physiology of the body.

**Course outline:**
This foundation (Intervention Programme) course revisits the key concepts and core material of HUB1022F. It is an introductory course for physiotherapy students with a focus on the fundamental aspects of chemistry and fundamental physical science related to biomechanics. In addition, fundamental mathematical skills are covered to enable students to address the course syllabus. Course content for physical science includes measurement, units, conversion of units and review of trigonometry; vectors, vector algebra and resolution of vectors; and displacement, velocity and acceleration in linear and angular systems. Principals of matter, atoms and elements, basic stoichiometry and the mole concept, chemical reactions and equilibria, acids, bases, buffers and gases are covered. By the end of the course students should be able to assess simple problems and determine displacement, velocities and accelerations in linear and angular systems; understand the relationship between displacement, velocity and acceleration; understand the principles of basic physical chemistry; and be able to solve basic problems in general chemistry.

**DP requirements:** Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of all coursework by the due dates.

**Assessment:** The course mark contributes 50% and comprises tutorial assessments (20%); class tests (30%) and a final test comprising a three-hour written theory test in November (50%). These assessments contribute 40% towards the final year mark in HSE1013F at the end of IP2. There is no summative examination for this course after IP1. The final assessment takes place in HSE1013F.

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**HSE1013F  FUNDAMENTALS OF BIOSCIENCES FOR PHYSIOTHERAPY IB**
36 NQF credits at HEQSF level 5; Four lectures and two two-tutorial sessions a week..

**Convener:** Dr N Chigorimbo-Tsikiwa, Associate Professor S Sivarasu and Dr B Ige

**Course entry requirements:** HSE1012S

**Objective:** Physics: To equip students to analyse basic biomechanical issues involving movement, forces, torques and stresses on the body. Chemistry: To provide students with a basic understanding of organic chemistry to assist in providing a foundation for pharmacology, physiology and metabolism.

**Course outline:**
This foundational (Intervention Programme) course is designed to prepare students for what they will encounter when they return to HUB1023S in the standard curriculum. The course employs the concepts, terminology and science covered in Fundamentals of Biosciences for Physiotherapy 1A. Course content for physical sciences includes forces and Newton’s laws in linear systems (static and dynamic), torque and lever systems (static), and free body diagrams associated with force and torque systems. Students are introduced to the concepts of moment of inertia and its application in dynamic torque systems; centre of mass; work, energy and power; momentum and impulse; and stress analysis. Basic organic chemistry and biomolecules are introduced, including structure and bonding, classes of organic compounds, functional groups and isomers. An introduction to the major organic molecules of cells is also included. By the end of the course students should be able to assess simple problems and determine forces and torque systems, and understand the relationship between
kinematics and force and torque systems. They will have a basic understanding of fundamental biochemistry and will be able to integrate and apply organic chemistry to life.

**Lecture times**: Monday and Wednesday (10h00-11h45); Tutorials on Tuesday/Thursday (14h00-16h00).

**DP requirements**: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials and submission of all coursework by the due dates.

**Assessment**: The course mark contributes 70% and comprises the HSE1012S final mark (40%); tutorials (12%); and class tests in August and October (18%). The final examination contributes 30% and consists of a three-hour written theory examination in June.

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**HSE1014S**  
**FUNDAMENTALS OF MOVEMENT SCIENCE AND APPLIED PHYSIOTHERAPY IA**

*There is no summative assessment for this course and therefore there are no NQF credits. The credits are included in those for AHS1040F.*

0 NQF credits at HEQSF level 5  
**Convener**: Dr B Ige and Dr N Naidoo  
**Course entry requirements**: None

**Course outline**:  
This foundation (Intervention Programme) course builds on the foundational concepts, terminology and science covered in AHS1033F Movement Science I. It re-visits aspects of the basic assessment and mobilisation of joints, muscle and soft tissue structure and function, and principles of muscle strengthening and theories on soft tissue healing. The principles and rationale underpinning the evaluation and treatment of movement dysfunction as covered in Movement Science I are re-emphasised. Teaching/learning strategies include lectures, practical demonstrations and workshops, tutorials, supervised site visits and self-directed learning sessions. At the end of this course students will be able to apply techniques of joint mobilisation (passive movements); measure and record joint range of motion; evaluate muscle strength and apply the principles of strengthening as indicated; discuss soft tissue healing; and apply techniques to treat soft tissue dysfunction.

**DP requirements**: Students must attend all lectures and tutorial sessions, participate in lectures and practical sessions, and submit homework, self-study tasks and assignments by the due dates.

**Assessment**: In-course assessments contribute 50% towards the final mark and consist of term tests (15%); OSPE tests (15%); and assignments (20%). The final test contributes 50% and consists of a written theory paper (25%) and a structured practical test (25%). These assessments contribute 40% towards the final year mark for AHS1040F at the end of IP2. There is no summative examination for this course after IP1. The final assessment takes place in AHS1040F.

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**HSE1015F**  
**FUNDAMENTALS OF MOVEMENT SCIENCE AND APPLIED PHYSIOTHERAPY IB**

36 NQF credits at HEQSF level 5  
**Convener**: Dr B Ige and Dr N Naidoo  
**Course entry requirements**: HSE1014S

**Course outline**:  
This foundation (Intervention Programme) course is designed to prepare students for what they will encounter in AHS1034S when they re-enter the standard curriculum. The course builds on the foundational concepts, terminology and science covered in HSE1014S. Content includes an introduction to therapeutic massage, exercise prescription, movement analysis, posture analysis and correction of postural dysfunction, and the basic re-education of functional activities. Students are exposed to clinical situations to familiarise them with the scope of physiotherapy practice and to emphasise the relevance of the classroom learning activities. In addition, debriefing sessions are held to discuss students’ experiences in clinical areas. Teaching/learning strategies include lectures, practical demonstrations and workshops, tutorials, supervised clinical visits and self-directed learning sessions. At the end of this course, students will be able to apply techniques of therapeutic massage and soft tissue mobilisation; analyse the components of normal human movement; assess posture and apply the principles of postural re-education; prescribe, demonstrate and teach exercises
to address problems related to movement dysfunction; and demonstrate basic strategies and techniques for the rehabilitation of functional activities.

**DP requirements:** Students must attend all lecture and tutorial sessions and participate in lectures and practical sessions. They must submit homework, self-study tasks and assignments by the due dates.

**Assessment:** Coursework contributes 50% and consists of term tests (weighted 15% of the final mark); OSPE tests (15%); and assignments (20%). The examination contributes 50% and consists of a written theory examination (25%) and a structured practical examination (25%).

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**HSE2000W**  
**BECOMING A DOCTOR PART I (CLINICAL SKILLS)**  
22 NQF credits at HEQSF level 6  
**Convener:** Dr R Weiss  
**Course entry requirements:** None  
**Co-requisites:** All DP requirements must be met. The three strands of BaDr courses (Languages, Family Medicine and Clinical Skills) are integrated and must be completed concurrently, but be passed individually in order to pass the course. If one strand is failed, all strands must be repeated.  
**Course outline:**  
The aim of the course is to learn how to conduct a biopsychosocial history, perform a general and focused clinical examination of a patient, focussing on the cardiovascular, respiratory and abdominal systems, and perform certain non-invasive procedural skills. Practical competence is supported by knowledge of the theoretical basis of presenting signs and symptoms. Both practical and theoretical aspects of learning contribute to developing a foundation for clinical reasoning.  
**Assessment:** Coursework: 45%; Examination 55%.

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**HSE3000F**  
**BECOMING A DOCTOR PART IIC (CLINICAL SKILLS)**  
15 NQF credits at HEQSF level 7  
**Convener:** Dr R Weiss  
**Course entry requirements:** Must have done BECOMING A DOCTOR PART 1 in the preceding year.  
**Co-requisites:** All DP requirements must be met. The three strands of BaDr courses (Languages, Family Medicine and Clinical Skills) are integrated and must be completed concurrently, but be passed individually in order to pass the course. If one strand is failed, all strands must be repeated.  
**Course outline:**  
The aim of the course is to develop students' clinical reasoning skills towards constructing a differential diagnosis, and to expand their history-taking and examination skills to the neurological system. Within the framework of a biopsychosocial approach to care, they draw on classroom tutorials, bedside learning, encounters with patients and the theoretical knowledge. They develop a portfolio of patient cases to demonstrate clinical reasoning, learn and practice procedural skills using manikins and develop professionalism in the context of becoming a doctor. The course builds on the techniques and skills learnt during BaDr Part 1.  
**Assessment:** Coursework: 45%; Examination 55%.
HUMAN BIOLOGY

Room 5.14, Level 5, Anatomy Building, Health Sciences Campus, and Sports Science Institute of South Africa Building, Newlands. (This incorporates the disciplines of anatomy, biokinetics, biological anthropology, biomedical engineering, cell biology, exercise science, health technology and infrastructure management, physiology, and sport and exercise medicine).

Professor and Head:
MR Collins, BScHons Stell PhD Cape Town FECSS

Professor and NRF/DST South African Research Chair in Biomedical Engineering & Innovation:
TS Douglas, BSc (Engineering) (Electrical & Electronic Engineering) MBA Cape Town MS Vanderbilt MPhil Stell PhD Strathclyde

Professor and NRF/DST South African Research Chair in BrainImaging:
E Meintjes, BScHons MSc UKZN MS PhD Oregon State

Professors:
EV Lambert, BA MSc South Carolina PhD Cape Town
MI Lambert, BSc (Agriculture) UKZN BAHons Rhodes MSc South Carolina PhD Cape Town
GJ Louw, BVSc DVSc Pret MPhil Cape Town
S Prince, BScHons HDE PhD Cape Town
M Senekal, BScHons (Dietetics) MSc PhD Stell
T Franz, PhD Bremen

Emeritus Professors:
LA Kellaway, BScHons MSc PhD Cape Town
AG Morris, BSc WLU PhD Witwatersrand
TD Noakes, OMS MBChB MD DSc (Medicine) Cape Town FACSM(Hon) FFSEM UK
VA Russell, BScHons MSc Cape Town PhD Stell
CL Vaughan, BScHons Rhodes PhD Iowa DSc (Medicine) Cape Town

Honorary Professors:
M Glucksberg, BS MS PhD Columbia
JL Jacobson, MA PhD Harvard
SW Jacobson, BA Brandeis MA PhD Harvard
D Kelso, BS Purdue MS PhD Northwestern
A Mairal, BSc Raipur MSc Bombay MBA Berkeley PhD Boulders
W Van Mechelen, MD PhD VU Amsterdam FACSM

Associate Professors:
AN Bosch, BSc UKZN BAHons MA Rhodes PhD Cape Town
DM Lang, Dr rer nat Konstanz Germany
D Shamley, BSc PhD Witwatersrand MBA Cape Town
S Sivarasu, PhD VIT University India

Associate Professor and Chief Research Officer:
AV September, BScHons (Medicine) MSc (Medicine) PhD Cape Town

Adjunct Associate Professor:
W van der Merwe, MBChB UFS Social Studies Oxon BScHons (Medicine) Cape Town FCS S4 Ortho
Honorary Associate Professors:
JH Goedecke, BSc Hons (Medicine) PhD Cape Town RD SA
RP Lamberts, BSc (Physiotherapy) MSc Netherlands PhD Cape Town FECSS
G Limbert, BSc MSc Toulouse MPhil Bordeaux PhD Southampton CEng FIMechE
LK Mickelsfield, BA Rhodes BSc Hons (Medicine) MSc (Medicine) PhD Cape Town
A van der Kouwa, BEng MEng Pret PhD Ohio State

Senior Lecturers:
A Abrahams, BSc Hons PhD Cape Town
A Bhagwandin, BSc Hons PhD Witwatersrand
Y Albertus, BSc Hons (Medicine) PhD Cape Town
R Ballo, MSc (Medicine) PhD Cape Town
K Bugarith, BSc Hons UKZN PhD Washington State
C D’Alton, MBChB Stell MSc SEM Bath
J Fortuin, BOH UWC M (eHealth & Telemedicine) UQ PhD UWC
J Friedling, MSc (Medicine) PhD Cape Town
VE Gibbon, BA Manitoba PhD Witwatersrand
G Gunston, MBChB MPhil Cape Town
A Gwanyanya, MBChB DA SA MMEd Zimbabwe PhD Leuven
J Harbron, BSc (Dietetics) MSc PhD Stell
T Mutsavangwa, BSc (Engineering) (Electrical Engineering) MSc (Medicine) PhD Cape Town
V Naidoo, BSc UKZN BSc Hons Pret MMedSci UKZN PhD Michigan
JV Raimondo, MBChB Cape Town DPhil Oxon
J Swart, MBChB MPhil PhD Cape Town

Honorary Senior Lecturers:
BS Spottiswoode, BSc Witwatersrand PhD Cape Town
S Taliep, PhD CPUT

Lecturers:
E Badenhorst, BAHons Stell
S Booley, MSc (Nutrition Management) UWC
D Hockman, MSc Cape Town PhD Cantab
J Kroff, BSc BHons (Biokinetics) MSc (Medical Physiology) PhD Stell
M Theron, BSc Hons (Dietetics) Pret

Assistant Lecturer:
KS Mpolokeng, BSc BMedSc Hons UFS

Honorary Lecturers:
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MG Kiessig
MK Patrick, MA Cape Town
J Scholefield, PhD Cape Town

Senior Research Officers:
C Draper, BSoC BSc SoC Hons MA PhD Cape Town
D Rae, BA (Human Movement Studies) AUS BSc Hons (Medicine) PhD Cape Town

Clinical Educators:
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N Jaffer, BSc Hons (Medicine) Cape Town
B Najaar, MSc (Nutritional Sciences) Stell RD SA
K Sexton, BSc Hons (Medicine) Cape Town
Research Officers:
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M Jankiewicz, MS Copernicus PhD Vanderbilt
M Nglazi, BSc Zambia MPH Cape Town
L Rauch, BSc BScHons (Medicine) PhD Cape Town
F Robertson, BSc (Engineering) (Electrical Engineering) MSc PhD Cape Town
J Smith, PhD Cape Town

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C Readhead
W Viljoen, PhD Cape Town

Principal Technical Officers:
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Chief Technical and Scientific Officers:
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M Petersen, MSc (Medicine) Cape Town

Technical Officers:
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D Abrahams
T Mkatazo, BSc BMedScHons Cape Town

Human Nutrition

Professor:
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Senior Lecturer:
J Harbron, NNutr MSc NutrSc PhD Stell RD SA

Senior Lecturer:
S Booley, MSc (Nutrition Management) UWC RD SA
HUB1006F  INTRODUCTION TO INTEGRATED HEALTH SCIENCES PART I
30 NQF credits at HEQSF level 5
Convener: Dr K Bugarith and L de Paulo

Course entry requirements: Attendance at and participation in all HUB1006F-related activities in the orientation programme, such as “Introduction to Life Cycle,” “Introduction to PBL” and the “Health and Safety” seminar.

Course outline:
The theme of the course is the human life cycle. Students are introduced to the key physical, psychological, social and developmental factors and issues that shape the human life cycle from conception to death. Problem-based learning (PBL) is the central learning activity of the course. Each student is allocated to a PBL group that meets regularly to discuss and analyse a number of carefully designed cases illustrating the key objectives of the course using the biopsychosocial approach. In addition to PBL, students are provided with a range of activities (including lectures, tutorials and practical sessions) to support their learning. At the conclusion of this course, students will have gained an introductory overview of the human life-span as well as the necessary core knowledge and skills from a range of disciplinary domains (e.g. anatomy, physiology, psychology and sociology).

DP requirements: Attendance of all academic activities, where official registers are circulated, including problem-based learning sessions, tutorials, workshops, and BHS practical sessions are a requirement for DP. Submission of all written assignments on time and completion of all in-course assessment activities are also a requirement for DP. Students may not miss any scheduled activities without the written permission of the academic staff responsible for these activities. Students are required to apply for a concession to miss classes/academic activities and submit appropriate supporting documentation should they miss a scheduled activity due to illness or approved non-medical reasons. If students miss Teaching and Learning Activities without appropriate permission, then students will not be awarded a DP certificate for the course. If students are not awarded a DP certificate they will not be able to progress to the second semester. Refer to the HUB1006F Course Handbook for further details regarding DP requirements and the course.

Assessment: Both in-course and end-of-course assessments may include written, computer-based and practical components. All components of in-course and end-of-course assessments must be written to pass the course. When students are unable to write an assessment for what is deemed a legitimate reason, a deferred assessment may be given. Students who miss a component of an in-course assessment must apply for a concession to miss classes/academic activities to write a deferred in-course assessment. Students who miss a component of the end-of-course assessment must apply for a deferred assessment via the Deferred Examinations Committee. All components of an assessment must be completed to pass that assessment. A medical certificate on ground of illness, or appropriate supporting documentation for all approved non-medical reasons, must be submitted when applying for a deferred assessment. Should a student fail to provide legitimate reasons, with supporting documentation, for being unable to complete an assessment activity, or fail to take a scheduled deferred assessment; a mark of zero will be given for that assessment. A student will not be allowed to have more than one opportunity to take a deferred assessment. In-course assessments account for a maximum of 40% and end-of-course assessments account for a minimum of 60% of the final course mark. Sub-minima may apply. Students who achieve a course result of 45-49% and pass at least one class test or the final examination will be eligible for a supplementary examination. Students who are granted a supplementary examination will have their final course results calculated using the same weightings as their original course mark. The marks from the supplementary examination will substitute for the original examination mark. The year mark will be retained in calculating the final course results. Refer to the HUB1006F Course Handbook for further details regarding assessments and the course.
HUB1014S  ANATOMY FOR COMMUNICATION SCIENCES
20 NQF credits at HEQSF level 5
Convener: Dr C Warton
Course entry requirements: None
Course outline:
This course gives an overview of the anatomy relevant for the practice of the communication sciences. It covers the morphological anatomy of the head and neck and relevant parts of the thorax, neuro-anatomy, and the areas of embryology relating to these subjects. The course consists of five lectures and one practical per week for one semester. The practical involves the examination of pre-dissected specimens of the related body parts.
DP requirements: Completion of all coursework by the due dates.
Assessment: Continuous assessment involves written and practical tests. The in-course assessments carry 45% of the marks and the final written and practical examinations the remaining 55%.

HUB1019F  ANATOMY AND PHYSIOLOGY IA
18 NQF credits at HEQSF level 5
Convener: Dr C Warton
Course entry requirements: None
Course outline:
This course consists of five lectures and one practical/tutorial per week. It includes an introduction to anatomy and the structure of the upper limb. It also includes an introduction to the cellular basis of physiology, tissue and body systems, with emphasis on nerve, muscle and body fluids.
DP requirements: Attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due date.
Assessment: The course comprises written and on-going practical assessments, which make up 45% of the course mark. The other 55% comprises marks for the final written and practical exams. Both the anatomy and physiology components of the course must be passed with a subminimum of at least 45% for each component in the course mark and final examination.

HUB1020S  ANATOMY AND PHYSIOLOGY IB
18 NQF credits at HEQSF level 5
Convener: Dr VE Gibbon
Course entry requirements: HUB1016F or HUB1019F
Course outline:
This course consists of five lectures and one practical/tutorial per week. It focuses on human body systems and includes the anatomy and physiology of the cardiovascular system, thorax and respiratory systems and the lower limb. The main aim is to integrate anatomical and physiological knowledge in order to understand the human body as a complete organism. Content also includes the anatomy of the lower limbs.
DP requirements: Attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due date.
Assessment: The course comprises written and on-going practical assessments, which make up 45% of the course mark. The other 55% is made up of marks for the final written and practical examinations. Both the anatomy and physiology components of the course must be passed with a subminimum of at least 45% for each component in the course mark and final examination.
HUB1022F  BIOSCIENCES FOR PHYSIOTHERAPY IA
9 NQF credits at HEQSF level 5
Convener: S Steiner
Course entry requirements: None
Objective: Physics: To equip students with basic skills to assess simple problems involving forces and torques in systems; predict what forces and torques are required to cause motion. Chemistry: To provide students with a basic understanding of the chemical principles and how they relate to the physiology of the body.
Course outline:
This introductory course provides first year physiotherapy students with the fundamental aspects of chemistry, biochemistry and fundamental physical science related to biomechanics. Topics have been selected to promote the integration of theoretical and practical knowledge. Content for physical science includes measurement, units, conversion of units, review of trigonometry; vectors, vector algebra and resolution of vectors; displacement, velocity and acceleration; free-body diagrams; forces and Newton’s laws in linear systems; torques and angular systems; and lever systems. Content for chemistry includes physical chemistry; principles of atoms and elements; basic stoichiometry of reactions in solutions, with an emphasis on molar concentrations and the principle of osmosis; an introduction to physiological enzyme structure and kinetics; the basics of cellular metabolism; chemical equilibrium, acids and bases and biological buffering systems. The course is taught through lectures, weekly tutorials and assignments. By the end of the course, students should be able to assess simple problems and determine forces and torques in systems; predict what forces and torques are required to cause motion; and understand basic chemical principles and how they relate to body physiology.
DP requirements: Students must attend 75% of tutorials, hand-ins and mini tests and must obtain a combined class mark of at least 40%.
Assessment: The course mark contributes 60% and comprises assignments (10%); class tests (30%); and ad hoc mini tests (20%). The examination contributes 40% and consists of a three-hour written examination in June. Both the physics and chemistry components of the course must be passed, with a subminimum of at least 40% for each component in the final examination.

HUB1023S  BIOSCIENCES FOR PHYSIOTHERAPY IB
9 NQF credits at HEQSF level 5
Convener: S Steiner
Course entry requirements: HUB1022F or HSE1013F
Objective: Physics: To equip students to analyse basic biomechanical issues involving movement, forces, torques and stresses on the body. Chemistry: To provide students with a foundation for pharmacology, physiology and metabolism.
Course outline:
This course builds on the foundational concepts, terminology and science covered in Biosciences for Physiotherapy IA. The course content for physical science includes centre of gravity; body-segment parameters; Hooke’s law; work, energy and power; momentum and impulse; static and dynamic systems; buoyancy; friction and stress analysis. Students learn how to assess journal articles. The course content for chemistry includes basic organic chemistry, covering fundamental aspects of structure and bonding, acids and bases, amines, carbohydrates, lipids and nucleic acids. Integrated with the chemistry principles, aspects of fat and protein metabolism are covered. The course is taught through lectures, weekly tutorials and assignments. By the end of the course, students should be able to assess simple problems and determine how forces and torques affect the work, energy and power in systems; determine whether certain types of loading are safe; and understand organic chemical principles and how they relate to body physiology.
DP requirements: Students must attend 75% of tutorials, hand-ins, and mini tests and obtain a combined class mark of at least 40%.
**Assessment:** The course mark contributes 60% and consists of assignments (10%), class tests (30%) and ad hoc mini tests (20%). The examination contributes 40% and consists of a three-hour written paper in November. Both the physics and chemistry components must be passed with a subminimum of 40% for each component in the final examination.

**HUB2005F  INTRODUCTION TO MEDICAL ENGINEERING**

*This course is intended as an introduction to the field of Biomedical Engineering and for students with an interest in applying for their engineering skills to the solution of problems in healthcare. This course is offered by the Division of Biomedical Engineering in the Department of Human Biology, and is particularly valuable for students considering postgraduate studies in Biomedical Engineering. Entrance may be limited.*

8 NQF credits at HEQSF level 6

**Convener:** Dr T Mutsvangwa and Dr T Abdalrahman

**Course entry requirements:** None

**Objective:** To provide an introduction to biomedical engineering in particular to undergraduate students.

**Course outline:**
This course provides an introduction to the field of biomedical engineering to undergraduate students in the Faculty of Engineering and the Built Environment and others. Topics include an overview of medical technology and innovation, medical imaging, image processing, and biomechanics of the musculoskeletal system.

**DP requirements:** None

**Assessment:** Class test: 20%; Group presentation: 30%; June examination: 50%.

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**HUB2015W  ANATOMY AND PHYSIOLOGY II FOR HEALTH AND REHABILITATION SCIENCES**

36 NQF credits at HEQSF level 6

**Convener:** Dr Y Albertus

**Course entry requirements:** HUB1020S

**Objective:** To understand and obtain an integrative knowledge of the human body and its systems from an anatomical and physiological perspective.

**Course outline:**
This year-long course forms the second half of a two-year programme covering aspects of human anatomy and general physiology. Subjects include systems physiology such as respiratory, cardiovascular and reproductive physiology which are aligned with the anatomical teaching of these systems. Included in the syllabus is also aspects of endocrinology and nutrition and diet. It is a full course of lectures, interactive weekly tutorials, practicals and demonstrations. Special emphasis is placed on neuro-anatomy and neurophysiology.

**DP requirements:** Full attendance of and participation in all learning activities and completion of all coursework by the due dates.

**Assessment:** The in-course mark contributes 45% and comprises tutorial and practical tasks (15%) and a term test (30%). The summative assessment comprises two examinations, weighted at 55% and consisting of a written theory examination and structured practical examination. Both the anatomy and physiology components of the course must be passed with a subminimum of at least 45% for each component in the course mark and final examination.
HUB2017H INTEGRATED HEALTH SYSTEMS PART IA
57 NQF credits at HEQSF level 6; Lectures (198 hours), group-work (70 hours) and tutorials and practicals (159 hours).
Convener: Dr G Gunston and Dr C Slater
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
The integrated courses HUB2017H, PTY2000S and PTY3009F extend across MBChB years two and three and provide the student with a detailed understanding of the normal structure and function of the human body and how these are affected when the body suffers from disease. Students learn core material in the basic sciences (gross anatomy, embryology, histology, cell biology, medical biochemistry, molecular biology and physiology); infectious diseases (medical microbiology, virology and immunology); changes in normal structure and function caused by disease (anatomical pathology, chemical pathology and haematology); and the principles of pharmacology/therapeutics and early management. Students are also introduced to skills such as critical thinking, reading, and analysis. Emphasis is placed on psychosocial matters relating to each case, drawing in relevant aspects of family medicine, primary healthcare principles, public health, and mental well-being. Students also learn clinical skills, interpretation of data, professional values and ethics, and certain procedural skills directly related to the cases studied. They study the impact of disease on the individual, family and society, and the role of the healthcare services in alleviating illness. Case-based group learning is supported by lectures, practical sessions and stand-alone modules. Students learn key life skills required of an effective healthcare professional, including a multidisciplinary team approach. The cases all have relevance to healthcare issues regionally and nationally.
DP requirements: Attendance at all problem-based learning sessions, tutorials (including small group and computer-based material), stand-alone units and practical sessions (consisting mostly of anatomy dissection, physiology and histology practicals); completion of all set assignments and assessment activities. Public Health specifically requires all exercises on Vula to be completed as part of HUB2017H and PTY2000S DP requirements.
Assessment: HUB2017H and PTY2000S are assessed together in a final examination at the end of second year. Students must achieve an overall pass in semesters 3 and 4 (year 2) in order to progress to year 3. Students are required to complete a series of in-course assessments during semesters 3 and 4 that contribute 55% of the total mark for the year by the end of semester 4. Completion of all assignments and an essay for Critical Health Humanities contributes 5% of the total mark for the year. A summative assessment is held at the end of the year that assesses work from semesters 3 and 4, and contributes 40% of the total mark for year 2. Students thus receive identical marks at year end for HUB2017H and PTY2000S. In order to be considered eligible for a supplementary examination, students are required to have achieved a total mark for year two of 45-49%, and to have passed at least one class test or the final examination. Students who are granted a supplementary examination will have their results calculated using the same weightings as the original total mark for the year, and the mark achieved in the supplementary exam will be substituted for the final examination mark.

HUB2019F INTEGRATED ANATOMICAL AND PHYSIOLOGICAL SCIENCES PART A
Entrance is limited to 80 students.
24 NQF credits at HEQSF level 6; 60 lectures, 10 practicals.
Convener: Dr EL van der Merwe
Course entry requirements: BIO1000F, BIO1004S and CEM1000W (or equivalent courses).
Co-requisites: An average grade of 60% or more for these two courses is recommended.
Course outline:
The course introduces the concept of integrating human physiology, anatomy, cell biology and histology. It includes the study of cells and tissues, the basic anatomy and histology of the musculoskeletal, endocrine and digestive systems, and an introduction to embryology and osteology. Physiological concepts include fluid balance, cell signaling, hormone regulation, digestion,
absorption and metabolism. The course consists of lectures, practical sessions and tutorials. In the practicals, students work in small groups using computers and specialised equipment to study the physiology and histology of the abovementioned organ systems. At the end of the course, students will be able to describe structure-function relationships of body systems covered in the course; apply concepts and principles taught in lectures and practical sessions to solve theoretical or real-life problems posed in tutorials, tests and examinations; follow and implement instructions in computer-simulated physiology experiments and interpret result; identify micro-anatomical organisation of organs under a microscope or in monographs; identify and name structures in anatomical specimens; and design simple experiments to determine physiologic parameters such as blood type, fluid compartment volumes, enzyme activities etc.

**Lecture times:** Lectures: Monday to Friday (08h00-08h45); Practicals: Mondays or Tuesdays (14h00-17h00).

**DP requirements:** Attendance at all practical sessions, 40% average in class tests and an average of 50% for all assignments.

**Assessment:** The breakdown of course marks is as follows: Class tests 30%, practical write-up 15%, assignments or tutorials 5%. Final examinations (50%) as follows: Theory examination 30%, practical examination 20%. A subminimum of 40% is required for the theory and practical examination to pass this course. Supplementary examinations, in the form of written, practical or oral assessment, may be offered to students whose overall score is 45-49%. An oral examination may be required in the case of selected students.

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**HUB2020S  SPECIAL STUDY MODULE**  
16 NQF credits at HEQSF level 6  
**Convener:** Dr V Zweigenthal  
**Course entry requirements:** All first year MBChB courses.  
**Objective:** The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.  
**Course outline:**  
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.  
**DP requirements:** Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.  
**Assessment:** Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.
HUB2021S INTEGRATED ANATOMICAL AND PHYSIOLOGICAL SCIENCES
PART B

Entrance is limited to 80 students
24 NQF credits at HEQSF level 6; 60 lectures; 10 practicals.
Convenor: Dr EL van der Merwe and Dr A Gwanyanya
Course entry requirements: HUB2019F (or approved equivalent) and CEM1000W (or approved equivalent).
Course outline:
The course integrates aspects of human physiology, anatomy and histology of organ systems, including cardiovascular, respiratory, nervous, reproductive, urinary and immune systems. The concept of integrating homeostasis and regulation forms the golden thread throughout this course. Homeostatic concepts covered include thermoregulation, acid-base balance, neural transduction, cardiac output and regulation, and respiration. Students are introduced to anthropology and to concepts of ageing and disease. In the practicals, students work in small groups using computers and specialised equipment to study the physiology of the nervous system, the electrical events in the contraction of cardiac muscle and the mechanics of the respiratory system. Students also examine human anatomical specimens of various organs and examine the histology of the organ systems. At the end of the course, students will have a thorough grounding in the physiological mechanisms of the nervous, urinary, cardiovascular, respiratory, reproductive, and immune systems. They will have an understanding of the basic anatomy and microanatomical organisation (histology) of key organs within the above bodily systems; will be able to integrate the concepts above in terms of understanding structure-function relationships, so as to understand the basic key elements that impact on the physiology of organs during ageing which leads to disease processes; and will be able to interpret data obtained from the various practicals.

Lecture times: Lectures: Monday to Friday (08h00-08h45); Practicals Mondays or Tuesdays (14h00-17h00).

DP requirements: Attendance at all practicals, 40% average in class tests and an average of 50% for all assignments.
Assessment: The final mark comprises class tests (30%); practicals, assignments and tutorials (20%); and final examinations (50%), consisting of a written theory exam (30%) and a practical (20%). A subminimum of 40% is required for the theory and practical examination to pass this course. Supplementary examinations, in the form of written, practical or oral assessment, may be offered to students whose overall score is between 45% and 49%. An oral examination may be required in the case of selected students.

HUB2023W BIOSCIENCES FOR PHYSIOTHERAPY II
9 NQF credits at HEQSF level 6
Convenor: S Steiner
Course entry requirements: HUB1023S, AHS1033F or AHS1040F
Course outline:
This course builds on the concepts taught in Biosciences IA and IB. The course content includes principles in orthopaedics; biomechanics of bone; fractures of the femur and the pelvis; joint biomechanics; ankle, knee, shoulder and elbow; waves and basic electricity relevant to the principles of electrotherapy; laser, ultrasound, shortwave diathermy, interferential stimulation; gait analysis; and electromyography. The course is taught be means of lectures, practical demonstrations and assignments. By the end of the course, students should understand joint mechanics, modes of bone fracture and the influence of forces and torques on bones and joints; select the appropriate treatment modality for electrotherapy, with an understanding of the physics involved; analyse human movement and gait using Gaitlab software; and demonstrate an understanding of EMG as a predictor for muscle activity.

DP requirements: Full attendance of and participation in all lectures, practical sessions, workshops and tutorials, and submission of assignments by the due dates.
Assessment: The course mark contributes 60% and comprises assignments (15%), ad hoc mini tests (5%) and class tests in April, June and September (40%). There is a three-hour written theory examination in November (40%). The final exam must be passed with a subminimum of 40%.

HUB3006F  APPLIED HUMAN BIOLOGY
36 NQF credits at HEQSF level 7
Convener: Associate Professor AN Bosch
Course entry requirements: HUB2019F; and HUB2021S or equivalent. Entry into this course requires a subminimum of 40% average for the Physiology component of HUB2017H and PTY2000S.
Objective: Understanding the physiology pertaining to exercise and performance with a view to furthering study at the Honours level.
Course outline: The semester theme is “Living, working and playing”. Topics dealt with include metabolism and homeostasis, sports nutrition and metabolism, obesity and diabetes, muscle physiology, cardio-respiratory physiology, sporting performance, exercise physiology, thermoregulation, and physiology in extreme environments. At the end of the course students should have a good understanding of the physiology related to movement, sport and exercise. They should understand physiological control, the basics of the physiological components underlying athletic performance, and energy balance and key components of sports nutrition. In addition, they should have a good understanding of the cardiovascular system, muscle function, and the effect of exercise on health, particularly diabetes and obesity. Students will prepare a seminar topic which will be presented as a PowerPoint presentation towards the end of the semester, during the “practical” time slot.
DP requirements: Attendance at all practicals, (including tutorials and seminar presentations held during the “practical” time slot), 40% average in class tests and an average of 50% for all assignments.
Assessment: Class tests (30%); practicals including assignments/seminar presentation (20%) and examinations (written theory and practical theory) (50%). A subminimum of 40% is required for the theory and practical examinations to pass this course. A subminimum of 40% is required for the theory and practical examination to pass this course. Supplementary examinations in the form of written, practical or oral assessment, may be offered to students whose overall score is 45 - 49%. An oral examination may be required in the case of selected students.

HUB3007S  HUMAN NEUROSCIENCES
36 NQF credits at HEQSF level 7
Convener: Dr A Gwanyanya
Course entry requirements: HUB3006F (or approved equivalent). Exceptions are at the discretion of the convener.
Objective: To obtain a good grasp of core theoretical and practical concepts of human neurophysiological function.
Course outline: This course offers theoretical and practical instructions on advanced concepts in neuroscience, such as embryological development and repair of the nervous system, histological and gross anatomical appearances of the brain, electrophysiology, principles of electrical and morphological brain imaging, neuronal signalling, signal transduction in sensory, motor and autonomic nervous systems, vision and pain perception, eating disorders, mechanisms of learning and the development of memory. At the end of the course, students should be able to apply knowledge gained and practical skills acquired to solve problems in neurophysiology; read and critically evaluate neuroscience literature; apply knowledge of human physiology in medical fields in the general market place; use acquired skills in assisting with undergraduate practical demonstrations; and teach the basics of human physiology.
Lecture times: Five 45-minute lectures per week, 1st period, Monday to Friday.
DP requirements: Attendance at all practicals, 40% average mark for class tests and an average of 50% for all assignments.
Assessment: Class tests (30%); practicals including assignments/seminar presentation (20%) and examinations (written theory and practical theory) (50%). A subminimum of 40% is required for the theory and practical examinations to pass this course. A subminimum of 40% is required for the theory and practical examination to pass this course. Supplementary examinations in the form of written, practical or oral assessment, may be offered to students whose overall score is 45 - 49%. An oral examination may be required in the case of selected students.

HUB4071F APPLIED ELECTROPHYSIOLOGY
12 NQF credits at HEQSF level 8
Convener: Dr LR John

Course entry requirements: Equivalent of Mathematics II and Physics II. Suitable for all graduate Engineering streams.

Course outline:
This course provides an introduction to electrical activity in the human body from an engineering perspective. As such, it is located between cellular electrophysiology and the design of non-invasive electrophysiological equipment. Lecture topics are selected from cellular membrane potentials, electrocardiology (ECG), cardiac fibrillation, pacemakers, electromyography (EMG), electrical stimulation (FES, TES) of muscles and nerves, electroencephalography (EEG), brain-computer interfacing (BCI), electrooculography (EOG), electrical bioimpedance, heart-rate variability (HRV) and galvanic skin response (GSR). This course is taught through lectures and practical demonstrations including visits to electrophysiological clinics at Groote Schuur Hospital and research laboratories at UCT by arrangement. At the end of this course, students will understand electrical processes in the heart, muscles, and brain; the relationship between cellular membrane potentials and electrical voltages measured non-invasively on the surface of skin; and how cellular membrane potentials can be changed using surface and implantable electrical stimulators.

DP requirements: Students are expected to attend and participate in all lectures and practical demonstrations. Attendance is monitored through the signing of an attendance register at each session.

Assessment: Course mark contributes 40% and comprises attendance and participation (10%); assignments and class test (30%). The final examination contributes 60% and comprises a written theory examination.
**INTEGRATIVE BIOMEDICAL SCIENCES**

**Professor and Head of Department:**
ED Sturrock, BScHons (Medicine) PhD Cape Town FRSSAf

**Medical Biochemistry and Structural Biology**

*Level 6, Falmouth Building, and Level 2, Wernher and Beit Building North*

**Professor and Head:**
V Leaner, BScHons (Medicine) PhD Cape Town

**Professors:**
AA Katz, PhD Rehovot
PN Meissner, BScHons (Medicine) PhD Cape Town

**Emeritus Professors:**
W Gevers, MBChB DSc Cape Town MA DPhil Oxon DSc UPE CMSA
RP Millar, PhD Liverpool FRCPath (Chemistry) FRSE
MI Parker, BScHons PhD Cape Town MASSAf
BT Sewell, MSc Witwatersrand PhD London

**Honorary Professors:**
KR Acharya, BSc MSc PhD Bangalore
CGP Mathew, BScHons UPE PhD London FRCPath Royal College of Pathologists
W-D Schubert, BScHons MSc Cape Town PhD Berlin

**Associate Professors:**
DT Hendricks, BScHons (Medicine) PhD Cape Town
Z Woodman, BScHons (Medicine) PhD Cape Town

**Emeritus Associate Professor:**
LR Thilo, MSc Pret Dr rer Nat Heidelberg

**Honorary Senior Lecturer:**
KJ Sales, BScHons (Medicine) MSc PhD Cape Town

**Senior Researcher:**
G Schäfer, PhD Berlin

**Research Officer:**
P van der Watt, PhD Cape Town

**Chief Scientific Officer:**
J Woodward, PhD Cape Town
Chemical and Systems Biology
Levels 2 & 3, Wernher and Beit Building North

Professor and Head:
J Blackburn, BScHons DPhil Oxon

Professors:
S Barth, PhD Bonn DMSc Cologne
ED Sturrock, BScHons (Medicine) PhD Cape Town FRSSAF

Honorary Professors:
M Mhlanga, PhD New York
DL Tabb, PhD Washington

Honorary Associate Professor:
L Zerbini, MSc PhD São Paulo Brazil

Senior Lecturer:
HH Ndlovu, BScHons Natal PhD Cape Town

Computational Biology
Level 1, Wernher and Beit Building North, IDM

Professor and Head:
NJ Mulder, BScHons PhD Cape Town

Honorary Professor:
S Bergmann, PhD Rehovot

Associate Professors:
D Martin, PhD Cape Town
N Tiffin, MPH Cape Town PhD London
IBS1007S  INTRODUCTION TO INTEGRATED HEALTH SCIENCES PART II
35 NQF credits at HEQSF level 5
Convener: Associate Professor Z Woodman and Dr R Ebrahim
Course entry requirements: PPH1001F, HUB1006F, CEM1011F and PHY1025F
Course outline:
The course introduces students to key principles and concepts of the basic sciences of anatomy, biochemistry and physiology, and of public health and family medicine. The Primary Health Care approach is at the centre of the health care system in South Africa and hence the Primary Health Care approach is emphasised throughout the course. Problem-based learning (PBL) is the central learning activity of the course. Each student is allocated to a new PBL group that meets regularly to discuss and analyse a number of carefully designed cases illustrating the key objectives of the course. In addition, students are provided with a range of activities to support their learning (including lectures, practical sessions, tutorials and workshops). At the conclusion of this course, students will have acquired an integrated understanding of key South African health challenges within a broader social and environmental context; the epidemiology of the major causes of disease in South Africa; the basic structure and function of all organ systems of the human body; and the basic structure and function of the biochemical components of the human body.

DP requirements: Attendance of all academic activities, where official registers are circulated, including problem-based learning sessions, tutorials, Family Medicine OPD visits, workshops, and BHS practical sessions are a requirement for DP. Submission of all written assignments on time and completion of all in-course assessment activities are also a requirement for DP. Students may not miss any scheduled activities without the written permission of the academic staff responsible for these activities. Students are required to apply for short leave of absence and submit appropriate supporting documentation should they miss a scheduled activity due to illness or approved non-medical reasons. If a student misses Teaching and Learning Activities without appropriate permission, then the student will not be awarded a DP certificate for the course. If a student is not awarded a DP certificate and will not be allowed to write the examinations and therefore will not pass the course and will not be able to progress to second year.

Assessment: Assessment includes in-course and end-of-course assessments. Regular self-assessment activities also provide feedback to students on their progress. Assessments include written, computer-based and practical components. Written components use a case-based format. When students are unable to write an assessment for what is deemed a legitimate reason, a deferred assessment may be given. A medical certificate on ground of illness, or appropriate supporting documentation for all approved non-medical reasons, must be submitted when applying for a deferred assessment. Should a student fail to provide legitimate reasons, with supporting documentation, for being unable to complete an assessment activity, or fail to take a scheduled deferred assessment, a mark of zero will be given for that assessment. A student will not be allowed to miss more than one assessment or have more than one opportunity to take a deferred assessment. In-course assessments are weighted 40% and end-of-course assessments are weighted 60% of the final course mark. Sub-minima may apply. Students are required to achieve a course result of 45-49% and to pass at least one class test or the final examination in order to be eligible for a supplementary examination. Should students be granted a supplementary examination, the same weighting as the original examination mark (60%) will be used to calculate the final mark.

IBS2001S  SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr J Klopper
Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural
science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.

IBS3020W  MOLECULAR MEDICINE
72 NQF credits at HEQSF level 7
Convener: Professor AA Katz

Course entry requirements: For students admitted to the intercalated BMedScHons-MBChB track: Students wishing to do the intercalated BMedScHons must have passed second year MBChB, must generally have obtained an average of at least 70% in the courses listed below, with no less than 60% for any single course (exceptions to be considered on merit by the course admission committee): CEM1011F or (for Intervention Programme Students) CEM1111S and CEM1011X, Chemistry; PHY1025F, HUB1006F and HUB1007S or (for Intervention Programme Students) HUB1010S and HUB1011F, HUB2017H, LAB2000S and MDN2001S (exceptions to be considered on merit by the course selection committee). For students wishing to exit with a BSc (Medicine): Students must have passed second year MBChB with an average of at least 60% and with no less than 55% for any of the courses mentioned above (exceptions to be considered on merit by the course Convenor).

Course outline:
The course includes lectures, tutorials and practical work that cover core and advanced topics on the molecular basis of disease. Core topics include DNA, RNA and protein structure, function, and how these are integrated to control normal cellular process such as signalling, proliferation, apoptosis, development and differentiation. Fundamentals of molecular and cellular immunology and molecular genetics are introduced. Advanced topics include stem cells, their biology and application, cancer biology, and infectious agents, infectious diseases and inherited diseases. These topics are presented in a multidisciplinary fashion, integrating principles of genetics and genomics, eukaryotic gene regulation, and cell signalling. Basic bioinformatics of DNA and proteins are introduced. Practical laboratory work covers theoretical and practical aspects of molecular, cellular and biochemical laboratory techniques, with emphasis on recombinant DNA techniques. There is also an introduction to genomic, proteomic and computational approaches to study molecular systems.

DP requirements: Attendance of all practicals and an average mark of 50% in tests and assignments/laboratory reports combined.

Assessment: Two tests and assignments/laboratory reports that are written during the course and one examination at the end of the course. Tests contribute 60%, assignments/laboratory reports contribute 5% and the end-of-year examination contributes 35% to the course final mark.
MEDICINE

J46, Old Main Building, Groote Schuur Hospital

The Department of Medicine is a large academic and clinical department which plays a leading role in medical education and research, and provides clinical services to the communities of the Western Cape and, in the case of our highly specialised services, to patients throughout Southern Africa.

Professor and Head:
NBA Ntusi, BScHons MBChB MD *Cape Town* FCP SADPhil Oxon Certificate (Cardiology) S4

Professor of Clinical Medicine and Deputy Head:
VC Burch, MBChB *Witwatersrand* MMed *Cape Town* FCP SA FRCP London PhD Rotterdam

Emeritus Professors:
ED Bateman, MBChB MD *Cape Town* DCH FRCP UK
SR Benatar, MBChB DSc (Medicine) *Cape Town* FFA FRCP
PJ Commerford, MBChB *Cape Town* FCP SA FACC
LH Opie, DPhil Oxon MD DSc (Medicine) *Cape Town* FRCP UK
S Saunders, MBChB MD *Cape Town*
JL Seggie, BScHons MBChB MD *Birmingham* FRCP London FCP SA
G Todd, BSc *UKZN* MBChB PhD *Cape Town* FC Derm S4

Emeritus Associate Professors:
RW Eastman, MBChB *Cape Town* FRCP UK
SR Ress, MBChB *Pret* FCP SA
R Scott Millar, MBChB *Witwatersrand* FCP SA
CR Swanepoel, MBChB *Cape Town* MRCP FRCP UK
R van Zyl-Smit, MBChB *Witwatersrand* MD *Cape Town* FRCP
PA Wilcoxon, BScHons MBChB *Birmingham* FRCP UK

Honorary Professors:
M Badri, BScHons MSc *India* MSc (Medicine) PhD *Cape Town*
JP Bassand, MD FESC FACC
TG Clark, BCom MSc *New Zealand* DPhil Oxon
T Forrester, DM (Medicine) MBBS MSc PhD *West Indies*
BJ Gersh, MBChB *Cape Town* DPhil Oxon FCP SA FRCP UK FACC
P Heering, MD FASN
AP Kengne, MD PhD *Sydney*
MC Kew, MRCP UK MBCh MD *Witwatersrand* PhD FCP SA FRCP London
VJ Louw, MBChB *Stell* MMed (Internal Medicine) *Stell* FCP S4 PhD UFS
C Masimirembwa, BScHons DPhil *Zimbabwe* PhD Sweden
GA Mensah, MD FACC FESC FAHA FACP FRCP S4 Hon
A Nel, MBChB PhD *Cape Town*
MGN Pai, MD PhD
G Pillai, PhD
PJ Schwartz, MD PhD
S Stewart, PhD *Glasgow* NFESC FAHA FCSANZ
VK Somers, MBChB *Natal* DPhil Oxon
RJ Wilkinson, MBCh MA PhD DTM&H FRCP UK
DM Yellon, PhD FESC FRCP UK
Visiting Professors:
B Keavney, BSc BM BCh Oxon MRCP DM FRCP UK
L Thabane, BSc Lesotho MSc (DipSci) England PhD London

Visiting Associate Professors:
FS Hellig, BSc MBCh Witwatersrand
JR Hoffman, BAHons DPhil Oxon
F Thienemann, MD DTMPH PhD MScI Health Germany

Associate Professors:
ME Engel, BScHons MPH PhD Cape Town

Honorary Associate Professors:
G Cotter, MD FACC FESC Israel
R Dawson, MBChB Cape Town FCP Cert (Pulm Phys) SA
LR Fairall, MBChB PhD Cape Town
T Gumbo, MD Zimbabwe
AP Kengne, MD PhD Sydney
M Khati, BSc BScHons (Medicine) Cape Town MSc (Medicine) DIC DPhil UK
R McNerney, PhD UK
RN van Zyl-Smit, MBChB MMed Cape Town FCP Cert (Pulm Dip) (HIV Management) SA MRCP UK
K Wilkinson, MSc PhD Budapest

Senior Lecturers Part-time:
NP Gina, MBChB Witwatersrand FCP Dip (HIV Management) SA
CA Viljoen, MBChB Pret FCP SA

Honorary Senior Lecturers:
M Abelson, MBChB Witwatersrand FCP SA MRCP UK
L Acquah, MD MSc FACP USA
AJ Brink, MBChB MMed Pret
J Butler, MBChB Pret FCP Neurology SA
E Danso, MBChB FCP SA
R Davidson, MBChB MD Cape Town MRCP DT&MH FRCP UK
CA de Jager, BScHons HDE Natal PhD Cape Town
JMG du Toit, MBChB Cape Town FCP SA
RJ Freercks, MBChB MPhil Cape Town FCP Cert (Neph Phys) SA
T Gould, MBChB Witwatersrand FCP SA
L Geffen, MBChB Cape Town FCP SA
M Gnecehi, MD PhD
C Kenyon, MBChB Cape Town FCP SA
J Kuehne, MBChB Cape Town MPhil Stell Dip (HIV Management) SA
MA Latib, MBChB FCP Cert (Cardiol Phys) SA
S Mathe, MBChB Cape Town MMed Stell
AG Parrish, MBChB Cape Town FCP DA SA
M Pascoe, MBChB FCP SA
K Rebe, MBChB Cape Town FCP SA DT&MH
A Robins, MBChB Cape Town MD Witwatersrand DPM RCP London RCS England
G Smit, MBChB MMed (Med) Stell
A Tooke, MBChB Cape Town FCP SA
J Turner, MBChB PGDip (Palliative Medicine) MD MMed Cape Town FCP SA FCCP
D Woolf, MBChB FCP SA
Lecturers Part-time:
A Barnard, MBChB Cape Town

Honorary Lecturers:
A Bruning, MBCh Witwatersrand FCP SA
R Cornick, MBChB MPhil Cape Town
KD Ebrahim, MBChB Cape Town FCP SA
J Hitzeroth, MBChB Stell DA FCP Cert (Cardiol Phys) SA
J Hugo, MBChB Pret MMed UFS FCA SA

Honorary Research Affiliate:
P Howlett, BSc MBChB Bristol MRCP UK

Honorary Research Associates:
A Binder, PhD Germany
M Carrington, BA PGDip (Psychology) PhD Australia
A Davis, BSc MBBS MRCP UK
R Hendricks, BChD MChD Cape Town
V Ives-Deliperi, PhD Cape Town
A Orren, MBChB MD Cape Town
N Peer, MBChB Natal MPH PhD Cape Town
M Rangkaka, MBChB Cape Town MSc MPhil PhD UK
C Stek, MD Netherlands
H Struthers, BSc BScHons MSc MBA Witwatersrand
D Watkins, MD MPH USA

Senior Research Officers Full-time:
J de Vries, BSc MSc Netherlands DPhil Oxon
G Shaboodien, BScHons PhD Cape Town

Clinical Educator:
F Drummond, SRN UK

Allergology and Clinical Immunology

Allergy Diagnostic and Clinical Research Unit, UCT Lung Institute, George Street, Mowbray E16 and Allergy Diagnostic and Clinical Research Unit, UCT Lung Institute

Associate Professor and Head of Division:
JG Peter, MBChB MMed PhD Cape Town FCP SA

Emeritus Professors:
PC Potter, BScHons MBChB MD Cape Town DCH FCP (Paediatrics) SA FACAAI
E Weinberg, MBChB FCP SA FAAAI

Emeritus Associate Professor:
SR Ress, MBChB Pret FCP SA

Lecturer Part-time:
R Leaver, MBChB FCP SA
J Holtzhausen, MBChB Dip (Allergology)

Honorary Lecturer:
S Emanuel, MBChB Cape Town
Medical Officer:
D Hawarden, BSc MBChB Cape Town Dip (Medical Technology) SA

Research Medical Officers:
K Coovadia, MBChB Dip (Allergology) SA
C Holmgren, MBChB Cape Town
R Mistry, MBBS New Delhi Dip (Allergology) (HIV Management) SA MBA Cape Town
A Le Roux, MBChB

Honorary Research Associate:
A Orren, MBChB MD Cape Town

Research Nurses:
S Baker, BSc (Nursing) MSc Dip (Asthma) NAEP UK
G Poggenpoel, CNP BTech Dip (Asthma) NAEP SA
D Van der Walt, CNP

Technical Staff:
B Fenemore
S Salie

Cardiology
E17, New Groote Schuur Hospital

Helen and Morris Mauerberger Professor of Cardiology and Head:
M Ntsekhe, BA MD Columbia FCP Cert (Cardiol Phys) SA MPhil PhD Cape Town FACC

Emeritus Professor:
PJ Commerford, MBChB Cape Town FCP SA FACC

Emeritus Associate Professor:
RN Scott Millar, MBBCh Witwatersrand FCP SA

Honorary Professors:
B Gersh, MBChB DPhil Oxon FCP SA FRCP UK
PJ Schwartz, MD PhD Italy

Visiting Associate Professor:
FS Hellig, BSc MBBCh Witwatersrand

Senior Lecturers Full-time:
A Chin, MBChB FCP SA Cert (Cardiol Phys) SA MPhil CEPS CCDS IBHRE
BJ Cupido, MBChB FCP Cert (Cardiol Phys) SA
S Pandie, MBChB FCP Cert (Cardiol Phys) SA

Senior Lecturer Part-time:
JE Stevens, MD FRCP UK

Honorary Senior Lecturers:
MJ Abelson, MBChB Witwatersrand MRCP UK FCP SA
AM Latib, MBChB FCP Cert (Cardiol Phys) SA

Lecturer Part-time:
M De Andrade, MBChB Cape Town MRCGP UK
Honorary Lecturer:
J Hitzeroth, MBChB Stell DA FCP Cert (Cardiol Phys) SA

Senior Registrars:
NP Duze, MBChB Medunsa Dip (HIV Management) Natal FCP SA
ZV Jama, MBChB Limpopo MMed Cape Town FCP SA
P Mkoko, MBChB Limpopo FCP SA
A Mutyaba, MBChB FCP SA

**Clinical Haematology**
*Chris Barnard Building*

Professor and Head:
VJ Louw, MBChB MMed Stell PhD UFS FCP SA

Senior Lecturers Full-time:
C du Toit, MBChB MMed UFS
E Verburgh, MBChB MMed

Senior Registrar:
JR Du Toit, MBChB Pret FCP SA

Chief Professional Nurses:
R Charles, RN Nico Malan College
W Vries, RN Nico Malan College

Clinical Trials Co-ordinator:
H Vermeulen, RN

Haemophilia Nurse Co-ordinator Western Cape:
AL Cruickshank, RN Cape Town

Medical Scientist:
S Mowla, PhD Cape Town

Medical Technologist:
C Seaton, NDip (Medical Technology) SA

**Clinical Pharmacology**
*K Floor, Old Main Building, Groote Schuur Hospital*

Professor and Head:
G Maartens, MBChB MMed Cape Town FCP SA DTM&H LSTMH UK

Professors:
KI Barnes, MBChB MMed Cape Town
M Blockman, MBChB BPharm MMed Cape Town
H McIlneron, MBChB PhD Cape Town

Honorary Professors:
C Masimirembwa, BScHons DPhil Zimbabwe PhD Sweden
G Pillai, BPharm MPharm PhD
Associate Professors:
K Cohen, MBChB MMed Cape Town MCFP Dip (HIV Management) (Obstetrics & Gynaecology) SA
PZ Sinxadi, MBChB PhD Cape Town DA SA
PJ Smith, BScHons PhD Cape Town
L Wiesner, PhD Cape Town

Lecturer:
S Allie, MBChB Stell

Honorary Senior Lecturer:
A Robins, MBChB Cape Town MD Witwatersrand DPM RCP London RCS Eng

Senior Research Officer:
P Denti, PhD Italy

Research Officer:
JP Mouton, MBChB Pret

Registrars:
R Griesel, MBChB Pret
H Gunter, MBChB Stell

Study Managers:
Clinical: E Allen, MPH Cape Town
Analytical: S Castel, PhD Cape Town

Medicine Information Centre Manager and Pharmacist:
A Swart, BSc (Pharmacology) Stell

Medicines Information Centre Pharmacists:
BS Chisholm, BPharm Rhodes
J Jones, BPharm Cape Town
E Tommy, BPharm Rhodes
V Raath, Dip (Pharmacology) Cape Town
A Uys, MSc (Pharmacology) BPharm PU for CHE

South African Medicines Formulary (SAMF) Pharmacist:
D Rossiter, Dip (Pharmacology) Pret MPharm PhD Medunsa

Principal Technical Officer:
AC Evans, NDip (Medical Labortory Technology) CPUT

Principal Scientific Officers:
A Joubert, BScHons UFS
TA Kellerman, PhD Cape Town

Critical Care Medicine
New Groote Schuur Hospital

Associate Professor and Head:
IA Joubert, MBBCh Witwatersrand DA FCA (Critical Care) SA
DEPARTMENTS IN THE FACULTY

Professor:
K Dheda, MBBCh Witwatersrand FCP SA FCCP PhD FRCP London

Emeritus Professors:
WL Michell, MBChB Cape Town DA FFA (Critical Care) SA
PA Willcox, BScHons MBChB Birmingham FRCP UK

Associate Professors:
GM Ainslie, MBChB Cape Town FCP UK
G Calligaro, MBChB Cape Town BScHons Witwatersrand FCP SA

Associate Professors Part-time:
J Brink, MBChB Cape Town FCS (Cardiothoracic) SA
PL Semple, MBChB MMed PhD Cape Town FCS (Neurosurgery) SA

Honorary Associate Professor:
R Dawson, MBChB Cape Town FCP Cert (Pulm Phys) SA

Senior Lecturers Full-time:
M Miller, MBChB Stell FCA SA Cert (Critical Care)
J Piercy, BScHons MBBS London FCA SA Cert (Critical Care)
RI Raine, MBChB MMed Cape Town FCP SA
G Symons, MBChB Dip (Primary Emergency Medicine) Cape Town FCP Cert (Pulm Phys) SA

Senior Registrars in Pulmonology:
TBA

Senior Technology Staff:
G Strathie, BTech Durban
Y Wells, Dip (Clinical Technology)

Dermatology
G23, New Groote Schuur Hospital

Professor and Head:
NP Khumalo, MBChB UKZN FC Derm SA PhD Cape Town

Emeritus Professor:
G Todd, BSc UKZN MBChB PhD Cape Town FC Derm SA

Senior Lecturers Full-time:
C Hlela, MBChB MMed UKZN FC Derm SA PhD Oxon
T Isaacs, MBChB Cape Town
R Ngwanya, MBChB UKZN DTM&H Witwatersrand MFGP FC DERM SA

Senior Lecturers Part-time:
F Esmail, MD Dar-es-Salaam FC Derm SA
SJ Jessop, MBChB Cape Town FC Derm SA
R Lehloenyia, BSc Lesotho MBChB Medunsa FC Derm SA
MH Omar, MBChB Cape Town FCP SA

Senior Research Officer:
H Adeola, BDS Nigeria PhD Cape Town
Research Officer:
J van Wyk, BScHons MSc PhD Cape Town

Registrars Full-time:
A Dhana, MBChB Witwatersrand
L Knight, MBChB Cape Town
N Spengane, MBChB Cape Town
K York, MBChB Witwatersrand

Endocrinology and Diabetic Medicine
J47, Old Main Building, Groote Schuur Hospital

Professor and Head:
TBC

Associate Professors:
JA Dave, MBChB Cape Town FCP PhD Cert (Endocrinology & Metab Physiology) SA
IL Ross, MBChB Stell FCP Cert (Endocrinology & Metab Physiology) SA PhD Cape Town

Research Officer:
N Folb, MBChB PhD Cape Town MRCGP

Clinical Educator:
BC Majikela-Dlangamandla, Dip (Nursing & Midwifery) (Community Nursing Science) BA Unisa

General Internal Medicine
G8, New Groote Schuur Hospital

Chief Specialist and Head:
PJ Raubenheimer, MBChB Witwatersrand FCP SA

Associate Professors:
B Hodkinson, MBChB Witwatersrand FCP Cert (Rheum Phys) SA PhD
JG Peter, MBChB FCP SA MMed PhD Cape Town
M Setshedi, MBChB UKZN FCP SA MPhil MPH Cert (Gastro Phys) PhD Cape Town
M Sonderup, MBChB Cape Town FCP SA

Senior Lecturers Full-time:
T Bana, MBChB Natal FCP SA
NA Gogela, MBChB Medunsa FCP SA
A Kropman, MBChB Cape Town FCEM SA
F Moosajee, MBChB Cape Town FCP SA
G Parolis, MBChB Cape Town FCP SA
G Symons, MBChB Dip (Primary Emergency Care) Cape Town FCP Cert (Pulm Phys) SA
PZ Szymanski, MBChB MMed Cape Town FCP SA

Senior Lecturer Part-time:
S Botha, MBChB Stell PhD LUMC

Lecturer Part-time:
W Latief, MBChB Cape Town
Geriatric Medicine
L-51 Old Main Building, Groote Schuur Hospital

The Albertina and Walter Sisulu Institute of Ageing in Africa (IAA) conducts interdisciplinary research in Geriatric Medicine, Neurosciences, Neuropsychology, Old Age Psychiatry and Social Gerontology. Current research interests include physical, cognitive and social functioning in old age: quality of life; vascular risk factors and stroke; falls in older persons; quality of care; dementia and cognitive disorders; and social and economic well-being.

William P Slater Chair of Geriatrics and Associate Professor:
MI Combrinck, MBChB BScHons (Medicine) PhD Cape Town FCP SA Neurology MRCP UK DTM&H London

Associate Professor and Director of the Albertina and Walter Sisulu Institute of Ageing in Africa:
SZ Kalula, BSc MBChB Zambia MMed MPhil PhD Cape Town FRCP UK

Professor:
JA Joska, MBChB MMed PhD Cape Town FC Psych SA

Visiting Associate Professor:
JR Hoffman, BAHons DPhil Oxon

Senior Lecturer Full-time:
L de Villiers, MBChB Cape Town FCP SA

Honorary Associate Professor:
KGF Thomas, PhD Arizona

Honorary Senior Lecturers:
CA de Jager, BScHons HDE Natal PhD Cape Town
L Geffen, MBChB Cape Town FCFP SA

Lecturer Part-time:
W Latief, MBChB Cape Town

Hepatology
K-Floor, Old Main Building, Groote Schuur Hospital

Associate Professor and Head:
CWN Spearman, MBChB MMed PhD Cape Town FCP SA

Emeritus Professor:
SJ Saunders, MBChB MD Cape Town FRCP UK FCP SA

Honorary Professor:
MC Kew, MBChB PhD MD DSc Witwatersrand FCP FRS SA FRS London

Associate Professor:
M Sonderup, MBChB MMed Cape Town FCP SA

Senior Lecturer:
NA Gogela, MBChB Medunsa FCP SA
Medical Technical Officer:
B Jennings, MSc (Medicine) Cape Town

Medical Technologist:
G Abdullah, NDip (Biomedical Technology) SA

Infectious Diseases and HIV Medicine
G16 Floor, New Groote Schuur Hospital

Professor and Head:
M Mendelson, BSc MBBS PhD Cantab FRCP London DTM&H

Professors:
G Maartens, MBChB MMed Cape Town FCP SA DTM&H
G Meintjes, MBChB PhD Cape Town MRCP UK FCP Dip (HIV Management) SA MPH Johns Hopkins

Honorary Professor:
RJ Wilkinson, MA Cantab BM BCh PhD DOxon DTM&H FRCP London

Associate Professors:
L-G Bekker, MBChB PhD Cape Town DCH DTM&H FCP SA
S Dlamini, MBChB FCP Cert (ID Phys) SA

Honorary Associate Professor:
K Wilkinson, MSc PhD Budapest

Senior Lecturer Full-time:
TBA

Honorary Senior Lecturers:
J Black, MBChB FCP Dip (HIV Management) SA
AJ Brink, MBChB MMed Pret
K Rebe, MBChB Cape Town FCP SA DTM&H

Senior Registrar:
D Reddy, MBChB Cape Town FCP SA

Honorary Research Associate:
H Struthers, BSc BScHons MSc MBA Witwatersrand

Lipidology
Fifth Floor, Chris Barnard Building

Associate Professor and Head:
DJ Blom, MBChB MMed PhD Cape Town FCP SA

Medical Officers Part-time:
BC Brice, MBChB Cape Town
KH Wolmarans, MBChB Pret

Sonographer:
Z Behardien, NDip (Diagnostic Radiography) SA
Trial Co-ordinator Part-time:
R Taylor, RN Groote Schuur Hospital

**Medical Gastroenterology**
_E23, New Groote Schuur Hospital_

Professor and Head:
TBA

Senior Lecturers Full-time:
S Hlatshwayo, BSc MBChB _Cape Town_ HDip (Internal Medicine) FCP Cert (Gastro Phys) _SA_
D Levin, MBChB MBA FCP Cert (Gastro Phys) _SA_
G Watermeyer, MBChB _Cape Town_ FCP Cert (Gastro Phys) _SA_

Senior Lecturers Part-time:
JEC Botha, MBChB _Stell MPraxMed Pret_
AK Cariem, MBChB _Cape Town_ FCP _SA_

Senior Registrars:
NN Mokhele, MBChB _Transkei_ FCP _SA_
CJ Rush, MBChB _Cape Town_ FCP _SA_

**Nephrology and Hypertension**
_E13, New Groote Schuur Hospital_

Professor and Head:
BL Rayner, MBChB MMed PhD _Cape Town_ FCP _SA_

Emeritus Professor:
LH Opie, MD DPhil DSc (Medicine) FRCP DMed (Hon)

Honorary Professor:
P Heering, MD

Associate Professors:
I Okpechi, MBBS FWACP Cert (Nephrol Phys) _SA_ PhD _Cape Town_
N Wearne, MBChB BMedSciHons _Sydney_ FCP _SA_ Cert (Nephrol Phys) _SA_ PhD

Emeritus Associate Professor:
CR Swanepoel, MBChB _Cape Town_ MRCP FRCP _UK_

Senior Lecturers:
Z Barday, MBChB FCP _SA_
B Davidson, MBChB _Cape Town_ FCP _SA_
E Jones, MBChB FCP Cert (Nephrol Phys) _SA_ PhD _Cape Town_

Honorary Senior Lecturer:
R Freercks, MBChB MPhil _Cape Town_ FCP Cert (Neph Phys) _SA_

Honorary Lecturer:
JL Ensor, MBChB _Cape Town_ FCP _SA_
Senior Research Officer Full-time:
Y Trinder, MBChB *Birmingham*

Senior Registrars:
TBA

**Neurology**

*E8, New Groote Schuur Hospital*

**Associate Professor and Head:**
A Bryer, MBBCh *Witwatersrand* MMed PhD *Cape Town* FC Neurol FCP SA

**Professor:**
J Heckman, MBChB *Witwatersrand* MMed PhD *Cape Town* FC Neurol FCP SA

**Emeritus Associate Professor:**
RW Eastman, MBChB *Cape Town* FRCP UK

**Senior Lecturers Full-time:**
KJ Bateman, MBChB MRCP UK FC Neurol SA
EB Lee Pan, MBChB *Cape Town* MMed Neurol Stell
LM Tucker, MBChB *Cape Town* FC Neurol SA MSc London PhD Cantab

**Honorary Senior Lecturers:**
J Butler, MBChB Fret FC Neurol SA
CA de Jager, BScHons HDE *Natal* PhD Cape Town

**Honorary Research Associate:**
V Ives-Deliperi, PhD *Cape Town*

**Senior Registrars:**
S Chetty, MBChB *Cape Town*
H Cross, MBChB MSc (Medicine) *Cape Town* Dip (HIV Management) SA
W Matshikiza, MBChB *Walter Sisulu*

**Occupational Medicine**

*E16, Occupational Medicine Clinic, New Groote Schuur Hospital*

*The Division of Occupational Medicine is concerned with the study, diagnosis, treatment, rehabilitation, incapacity management and prevention of disease and ill-health attributable to work. Our Occupational Medicine Clinic at New Groote Schuur Hospital is one of the few referral clinics in the country offering specialist services in the diagnosis and management of occupational disease and hazardous occupational exposures.***

**Professor and Head:**
MF Jeebhay**, MBChB *UKZN* DOH MPhil *Cape Town* MPH PhD *Michigan*

**Emeritus Professors:**
R Ehrlich, BBusSc MBChB PhD *Cape Town* DOH *Witwatersrand* FFCH FCPHM (Occupational Medicine) SA
G Todd, BSc *UKZN* MBChB PhD *Cape Town* FCDerm SA
DEPARTMENTS IN THE FACULTY

Senior Lecturer:
S Adams**, MBChB DOH MMed PhD Cape Town MFamMed Stell FCPHM (Occupational Medicine) SA

Lecturer Part-time:
ADH Burdzik, MBChB MMed Cape Town DipOccMed UK FCPHM (Occupational Medicine) SA

[* Run jointly with Divisions of Pulmonology and Dermatology]
[** Jointly appointed with Department of Public Health and Family Medicine]

Pulmonology
Respiratory Clinic, Ward E16, Groote Schuur Hospital, and University of Cape Town Lung Institute

Professor and Head:
K Dheda, MBBCh Witwatersrand FCP SA PhD London FRCP UK FCCP

Emeritus Professors:
ED Bateman, MBChB MD Cape Town DCH FRCP UK
SR Benatar, MBChB DSc (Medicine) Cape Town FFA FRCP (Hon) FCP (Hon) SA

Honorary Professors:
TG Clark, BCom MSc New Zealand DPhil Oxon
VK Somers, MBChB Natal DPhil Oxon

Associate Professors:
GM Ainslie MBChB Cape Town FRCP UK
G Calligaro, MBChB Cape Town BScHons Witwatersrand FCP SA (Cert Pulm) SA

Emeritus Associate Professor:
PA Willcox, BScHons MBChB Birmingham FRCP UK

Honorary Associate Professors:
R Dawson, MBChB Cape Town FCP Cert (Pulm Phys) SA
LR Fairall, MBChB PhD Cape Town
R McNerney, CBiol PhD UK
K Steingart, MD PhD USA
RN van Zyl-Smit, MBChB MMed Cape Town FCP Cert (Pulm Phys) Dip (HIV Management) SA
MRCP UK

Senior Lecturers:
RI Raine, (Head: Respiratory Critical Care) MBChB MMed Cape Town FCP SA
G Symons, MBChB Dip (Primary Emergency Care) Cape Town FCP (Cert Pulm) SA

Lecturers Full-time:
ME Bateman, MBChB Cape Town
SM Oelofse, MBChB Pret

Honorary Lecturer:
A Bruning, MBChB Witwatersrand FCP SA

Honorary Research Associates:
A Binder, PhD Germany
R Hendricks, BChD MChD Cape Town
Senior Research Officer Part-time:
G Theron, BScHons MSc PhD Cape Town

Senior Registrars:
TBA

Research Officers Full-time:
B Bam, Dip (Clinical Technology)
D Carter, Dip (Nursing)
R Cornick, MBChB MPhil Cape Town
B Draper, MBChB Pret MMed Cape Town FCPHM SA
J Etheridge, Dip (Clinical Technology)
M Evreva, Dip (Nursing)
G Faris, AdvCert (Adult Education) Cape Town
D Georgeu, Dip (Nursing)
J Gershman, NDip (Pharmacy)
R Gillespie, BNurs Dip (Midwifery) BNursHons MNursing
HJ Golakai, BSc Zululand BScHons Cape Town MScMed Stell
B Green, Dip (Nursing)
J Holborn, Dip (Nursing)
S Hood, Dip (Medical Technology)
N James, B Tech (Clinical Technology)
L Kapa, Dip (Clinical Technology)
R Lehloenyia, BSc MBChB FC Derm SA
L Lenders, BSc (Medicine) Cape Town
K Narunsky, MBChB Cape Town
MB Ngobese, Dip (Clinical Technology)
A Olkers, Dip (Clinical Technology)
J Philips, Dip (Nursing)
A Smith, Dip (Nursing)
N Tsutsu, Dip (Clinical Technology)
V Timmermann, MSc Pret
K Uebel, BScMed MBBS Australia DCH DO MFamMed UFS
Y Wells, Dip (Clinical Technology)
C Wilson, Dip (Nursing)
C Whitelaw, NDip (Pharmacy)

Senior Research Officer:
M Tomasicchio, BSc BScHons MSc PhD Rhodes

Research Officers Part-time:
A Esmail, MD FCP SA FCP Cert (Pulmonology) SA
E Dommisse, MBChB Cape Town MRCGP DRCOG UK DCH SA
J Holtzhausen, MBChB Stell DCH SA BScHons Pharmacology
L Semple, BScHons MSc PhD Cape Town

Laboratory Technologist:
R Meldau, BScHons (Medicine) Cape Town

Rheumatology
J-Floor, Old Main Building, Groote Schuur Hospital

Professor and Head:
TBA

DEPARTMENTS IN THE FACULTY  133
Associate Professor:
B Hodkinson, MBChB Witwatersrand FCP Cert (Rheum Phys) SA

Senior Lecturer Full-time:
A Gcelu, MBChB Cape Town FCP Cert (Rheum Phys) SA

Senior Lecturers Part-time:
SJ Jessop, MBChB Cape Town FC Derm SA
I Joubert, MBChB Stell
S Botha, MBChB Stell PhD LUMC
R Breeds, MBChB Cape Town FCP SA

Senior Registrar:
U Brijlal, MBChB Natal MMed Stell FCP SA

Staff in associated hospitals who teach undergraduate and postgraduate students

BROOKLYN CHEST HOSPITAL

Senior Lecturer and Head:
P Spiller, MBChB Cape Town

GEORGE HOSPITAL

Senior Lecturer and Head:
TJ Gould, MBChB MMed Witwatersrand

KHAYELITSHA COMMUNITY CENTRE

Honorary Senior Lecturers Part-time:
J Kuehne, MBChB Cape Town MPhil Stell Dip (HIV Management) SA
S Mathee, MBChB Cape Town MMed Stell

II MILITARY HOSPITAL

Senior Lecturer and Head:
G Smit, MBChB MMed Stell

Senior Lecturer Full-time:
A Tooke, MBChB Cape Town FCP SA

MITCHELL’S PLAIN HOSPITAL

Senior Lecturer and Head:
T Credé, MBChB Dip (HIV Management) FCP SA

Senior Lecturer:
DF Maughan, MBChB Cape Town FCP SA

NEW SOMERSET HOSPITAL

Senior Lecturer and Head:
Y Vallie, MBChB Cape Town FCP SA
Senior Lecturers Full-time:
MS Moosa, MBChB *Natal* FCP SA
I Banderker, MBChB *Cape Town* FCP SA

Senior Lecturer Part-time:
H Spilg, FCS SA

**VICTORIA HOSPITAL**

Senior Lecturer and Head:
N van der Schyff, MBChB *Cape Town* FCP SA

Senior Lecturers Full-time:
B Brink, (Head of Unit) FCS SA
C Cupido, MBChB *Cape Town* FCP SA

Senior Lecturers Part-time:
H Allison, FCS SA
S Cullis, FCS SA
L de Villiers, MBChB *Cape Town* FCP SA
N Fuller, MBChB *Cape Town* FCP SA
K Goldberg, FCS SA
A Lachman, MBBCah *Witwatersrand* FCP SA
K Michalowski, FCS SA
J Turner, MBChB MD MMed PGDip (Palliative Medicine) *Cape Town* FCP SA FCCP

Honorary Lecturer:
KD Ebrahim, MBChB *Cape Town* FCP SA

**MDN2001S  SPECIAL STUDY MODULES**

16 NQF credits at HEQSF level 6

**Convener:** Dr V Zweigenthal

**Course entry requirements:** All first year MBChB courses.

**Objective:** The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.

**Course outline:**
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.

**DP requirements:** Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.

**Assessment:** Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information.
booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.

MDN3001H  INTRODUCTION TO CLINICAL PRACTICE
68 NQF credits at HEQSF level 7
Convener: Dr M Karjiker and M Jansen
Course entry requirements: Successful completion of courses PTY3009F, PPH3000F and HSE3000F.
Course outline:
This course is designed to allow students to consolidate and broaden the clinical skills, knowledge and behaviours acquired in the Becoming a Doctor courses and to apply the principles learnt in the Integrated Health Systems courses to clinical practice. Students start acquiring professional life skills and behaviours while in the wards. They rotate through five clinical attachments of three weeks each, covering the domains of adult health, women’s health, mental health, perinatal health and a clinical skills module. Students interview, examine and assess patients in hospitals and healthcare institutions. These clinical attachments are complemented by a lecture and tutorial programme introducing the principles of ethics, therapeutics and genetics.

DP requirements: Attendance of clinical tutorials and activities and all clinical skills training sessions, Demonstration of competence in key resuscitation skills, Ability to identify, interview, examine, assess and present cases to the satisfaction of the lecturer in charge of each clinical attachment, Attendance of ethics and all other tutorials, A satisfactory portfolio of clinical teaching, Adult Health: clerking notes of 7 patients including a mind map of the presenting complaint and a completed summary sheet from the following disciplines: 2 cardiovascular, 2 respiratory, 1 abdominal/liver, 1 abnormal urine, 1 rheumatology, Mental Health: 3 psychiatry case reports and 1 geriatrics case report in the form of a geriatrics group case presentation. Women's Health: 1 long case report, 2 short case reports, 4 short family planning case discussions. Perinatal Health: 4 antenatal and 4 neonatal case reports, 1 Friday presentation plus background research and 1 reflective commentary. Ethics: 1 case discussion. Satisfactory completion of all set assignments, including reading, self-study, written and oral presentations.

Assessment: Assessment includes 3 components: Theory exam (50%) This will be in the form of a MCQ exam which will cover all of the clinical attachments (Adult, Mental, Women's, Perinatal Health and Clinical Skills) covered in semester 6 as well as lectures on Ethics, Therapeutics and EBM. Portfolio examination on the following 4 clinical attachments (40%) based on a selected number of cases from your portfolio: a. Adult Health: marked portfolio exam, b. Mental Health: marked portfolio exam, c. Women's Health: oral portfolio exam, d. Perinatal Health: oral portfolio exam. Clinical Skills Module OSCE exam. (10%). Students must pass all components of the course: theory, portfolio assessments of clinical attachments and clinical skills OSCE exam with 50%. Re-assessment may be granted when a student obtained between 45 - 49% in a component (theory exam, portfolio assessment of clinical attachments or OSCE exam) of the assessment but has obtained 50% or more in all the other components individually. A student can thus only fail one components to be eligible for a re-assessment. The student will only be required to do the re-assessment on the component (theory, portfolio assessment of clinical attachment or clinical skills OSCE exam) which was failed. If a student fails the supplementary exam, or one or more components in the original exam with less than 45%, they have to repeat the entire semester.
MDN3003W  INTRODUCTION TO CLINICAL PRACTICE PART II  
10 NQF credits at HEQSF level 8  
Convener: Dr N Gogela  
Course entry requirements: Students must be in the third year of the MBChB.  
Course outline:  
This course is designed for medical students completing the intercalated BMedScHons programme. The course aims to build on the clinical skills and knowledge acquired in the Introduction to Clinical Practice course offered in the third year of the MBChB programme. Students will attend two bedside tutorials and clerk one patient per week for the duration of the course (25 weeks). Students will be expected to further develop their skills in history-taking, physical examination and diagnostic reasoning by interviewing and examining patients with medical problems commonly encountered in clinical in South Africa. Students will be able to conduct a full medical consultation and write a comprehensive set of clinical notes documenting the clinical encounter. They will also be expected to develop a clinical assessment of the medical problem including a differential diagnosis. A basic understanding of the treatment required for the medical problem will also be expected. Students will be expected to further develop their skills in history-taking, physical examination and diagnostic reasoning by interviewing and examining patients with medical problems commonly encountered in clinical practice in South Africa.  
DP requirements: Students will be required to attend all bedside tutorials and complete a portfolio of 25 patient encounters to fulfil the DP requirements of the course.  
Assessment: Students will receive an in-course mark based on their performance in the weekly bedside tutorial sessions and this mark will contribute 40% to the final year mark. Students will also do an oral portfolio-based examination at the end of the course and this will contribute 60% to the final course mark. Coursework percentage 40%, examination percentage 60%.

MDN3005W  SCIENTIFIC PRINCIPLES OF COSMETIC FORMULATIONS  
30 NQF credits at HEQSF level 7  
Convener: Dr N Sishi and Dr N Vorster  
Course entry requirements: None  
Course outline:  
The aim of this course is to provide the student with a fundamental knowledge and understanding of the physical chemistry at the surface of phase interfaces in a multi-phase system such as is found in most cosmetic formulations, as well as a working knowledge of raw materials, their structure, reactivity, interaction, safety, and their function within a cosmetic formulation. This knowledge and understanding will equip the student to solve formulation problems and/or formulation stability issues in real-life situations. Content includes a study of raw materials such as fats, oils and waxes, gums, thickeners and resins, polymers, pigments and dyes, surfactants, preservatives and antioxidants, fragrance, extracts and oils; and principles of formulation science, including colloids and interfaces, colloid stability theory, rheology, solubility parameters and polymer-plastics technology.  
DP requirements: A minimum of 90% attendance of all lectures; a year mark of at least 50%, unless approved otherwise by the programme convener.  
Assessment: The course mark contributes 70% to the final mark. The final examination contributes 30% to the final mark. The course mark includes tests (multiple-choice questions, open-ended questions, case-studies); assignments (written report or oral presentation) on topical issues and practical reports.
**MDN3006W  COSMETIC FORMULATION TECHNOLOGY**

30 NQF credits at HEQSF level 7  
**Convener:** Dr N Sishi and Dr N Vorster  
**Course entry requirements:** None  

**Course outline:**  
The aim of this course is to enhance the student’s understanding of the physical chemistry concepts learned in MDN3005W by his/her carrying out practical work demonstrating these concepts. The student gains hands-on experience and skills in preparing various types of cosmetic formulations and in selecting and carrying out appropriate testing protocols to determine efficacy, safety and stability of cosmetic formulations and product packaging. Practical work in the laboratory includes properties of surfactants (including surface tension and wetting behaviour, HLB value determination); viscosity and rheology; and the preparation of formulation types, including emulsions, microemulsions, foam, dispersions and suspensions, solid forms microcapsules, aggregates, powders and organic formulations. Various testing protocols include product efficacy tests, such as allergy tests; toxicological tests; product assays; formulation stability testing protocols; product packaging compatibility; claim substantiation; preservative challenge test, safety and product protocol; and art-work development, such as barcodes, symbols, consumer language, regulatory and export requirements; and protocols in foreign language.  
**DP requirements:** A minimum of 90% attendance of all lectures; a year mark of at least 50%, unless approved otherwise by the programme convener.  
**Assessment:** The course mark contributes 70% to the final mark. A final examination contributes 30% to the final mark. The course mark includes tests (multiple-choice questions, open-ended questions, case-studies) - assignments (written report or oral presentation) on topical issues; and practical reports.

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**MDN3007W  HAIR AND SKIN BIOLOGY FOR THE COSMETIC FORMULATOR**

30 NQF credits at HEQSF level 7  
**Convener:** Dr J van Wyk  
**Course entry requirements:** None  

**Course outline:**  
The course aims to generate knowledge and understanding of the basic anatomy of skin and hair as substrates for cosmetic application and the interaction thereof with cosmetic raw materials and products. A the end of the course, students are required to demonstrate basic knowledge and understanding of hair anatomy and structure; hair curvature and the biochemical properties of hair; chemical hair straighteners; skin anatomy; basic cell physiology; skin biology and disorders associated with pigmentation; and the interaction of cosmetics with skin and hair.  
**DP requirements:** A minimum of 90% attendance of all lectures; a year mark of at least 50%, unless approved otherwise by the programme convener.  
**Assessment:** The course mark contributes 70% to the final mark. A final examination contributes 30% to the final mark. The course mark includes tests (multiple-choice questions, open-ended questions, case-studies); assignments (written report or oral presentation) on topical issues; and practical reports.

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**MDN3008W  COSMETICS: CLAIMS, REGULATION AND ETHICS**

15 NQF credits at HEQSF level 7  
**Convener:** Dr J van Wyk  
**Course entry requirements:** None  

**Course outline:**  
This course provides insight into the ethics of manufacturing, product testing and advertising. The legislative and regulatory structures guiding the South African and global cosmetic industry are outlined. Consumer complaints and cosmetic industry disputes are utilised to teach the protocols exercised by the Advertising Standards Association of South Africa. Students are taught the regulatory framework within which business is conducted by their exposure to real-life examples.
and manufacturing site visits. The course also includes an introduction to the modern approach of life-cycle assessment and sustainable cosmetic product design.

**DP requirements:** A minimum of 90% attendance of all lectures; a year mark of at least 50%, unless approved otherwise by the programme convener.

**Assessment:** The course mark contributes 70% to the final mark. A final examination contributes 30% to the final mark. The course mark includes tests (multiple choice questions, open-ended questions, case-studies); assignments (written report or oral presentation) on topical issues; and practical reports.

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**MDN3009W**  
PROFESSIONAL COMMUNICATION AND PROJECT MANAGEMENT FOR COSMETIC SCIENTISTS

15 NQF credits at HEQSF level 7

**Convener:** Dr N Sishi

**Course entry requirements:** None

**Course outline:**
The aim of the course is to teach students appropriate information retrieval and processing skills as well as to equip them with the ability to present data and communicate in an appropriate academic and professional manner by using a range of genres appropriate to the context of cosmetic formulation science. At the conclusion of this course, students will demonstrate the ability to use critical analysis and synthesis to independently evaluate quantitative and qualitative data to engage with current research and scholarly or professional literature in the field to manage a project from conception to implementation to communicate and present data; and to work as part of a real-life multidisciplinary team.

**DP requirements:** None

**Assessment:** The course mark contributes 100% to the final mark. The course mark includes tests (multiple choice questions, open-ended questions, case-studies); assignments (written report or oral presentation) on topical issues; and practical reports.

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**MDN4011W**  
MEDICINE

*MDN4111X, MDN4211X, MDN4311X, MDN4411X, MDN4511X*

60 NQF credits at HEQSF level 8

**Convener:** Associate Professor N Wearne (overall convener, and convener of Ward Care); Dr S Botha (AmbuCare); Dr C Tsampiras (Primary Health Care); Dr A Barnard (Palliative Care); Dr A Kropman (Acute Care); J Irlam (Evidence-based Medicine); and Dr L Ngwanya (Dermatology)

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Course outline:**
This course consists of two modules: [1 x 8 week module and 1 x 4 week module]. Module 1 consists of Ward Care, during which students clerk and present 12 patients from intake to discharge. These patients must be included in the portfolio for medicine. Students attend seminars on topics relevant to the practice of medicine, as well as practical bedside teaching sessions and a presentation on the use of the Practical Approach to Care Kit [PACK]. Dermatology presentations are devoted to teach terms to define and classify skin lesions into specific reaction patterns and clarify the relationship between the skin and other body systems. Evidence-based medicine presentations are aimed at teaching skills to critically appraise a systematic review. Primary Health Care teaching is aimed at implementing PHC principles to in-patient care and the submission of a portfolio of patients. Languages teaching, where students learn Afrikaans, and isiXhosa at the bedside will occur through the module. Module 2 consists of Acute Care: teaching the triaging and management of acutely unwell and undifferentiated patients in an emergency centre; AmbuCare, during which students produce diagnostic maps and structured reflection charts for patients seen in an outpatient setting as well as attend outpatient clinics; and Palliative Care, during which students assess patients’ palliative needs (including physical, psychosocial and spiritual).

**Lecture times:** Seminars Monday - Friday afternoons
DP requirements: (a) Medicine: Module 1: (i) Ward Care: Attendance at bedside tutorials and PACK tutorials; Medicine portfolio cases with assessment templates, MiniCEX cases, intakes and PIWRs. The numbers required will be stipulated in the course manual (ii) Primary Health Care: Attendance at one PHC tutorial and completion of portfolio cases by due date/s as stipulated in the course manual. (iii) Attendance of Language tutorials (b) Medicine: Module 2: (i) Acute Care: Attendance at acute care shifts and completion of miniCEX cases (as stipulated in the course manual), a triage sheet, and all self-directed learning tasks (CPR teaching, CPR practical and task relating to a critically ill patient) by due date/s. (ii) Ambucare: Attendance at clinics; with completion of diagnostic maps, group reflections and miniCEX cases by due dates/s as stipulated in the course manual. (iii) Palliative Care: Attendance at Palliative Care Introductory tutorial, renal replacement meeting, two inter-disciplinary team meetings and a SOCKS feedback session; and submission of a discharge letter by the due date. (iv) MOPD attendance: Attendance at MOPD clinics with patient write-ups from the clinics attended; attendance of 1 diabetes session. (v) Fundoscopy training session (vi) Completion of an EBM task by due date. On completion of the two modules, the Medicine logbook must be handed in by the due date.

Assessment: Module 1: Clinical examination [30%] including languages (5%); Theory of Medicine: MCQ (15%) and PACK MCQ (5%), Dermatology Slide Show (5%), EBM task (5%); Portfolio of Medicine (Medicine [15%] and PHC [10%]); Work-place Assessment (MiniCEX and Firm assessment) (10%). Module 2: Theory Assessment: MCQ exam from AmbuCare, Acute Care and Palliative Care (60%); Work-place assessment: MiniCEX from acute care and AmbuCare (40%). Module 1 [8 WEEKS] will contribute to 60% of the MDN4011W assessment with Module 2 contributing to 40%. To pass the course a student requires: 50% for each module independently: in addition the following subminimum is required: 50% for: (a). Clinical examination and must pass two of the three clinical examination cases (with pass being>50%); in addition to this all three cases must be passed in total (>50%), (b) MCQ examination in module 1  and 2. (c) Medicine portfolio examination. A subminimum of 45% is required for all other components/examinations.

MDN4015W PHARMACOLOGY AND APPLIED THERAPEUTICS
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN4115X, MDN4215X, MDN4315X, MDN4415X, MDN4515X
20 NQF credits at HEQSF level 8
Convener: S Allie
Course entry requirements: Successful completion of all courses within the preceding academic year
Objective: The objective of training in Clinical Pharmacology and Applied Therapeutics is to enable students to develop the skills required to prescribe essential medicines rationally in the acute and chronic management of common conditions.
Course outline: During the course students develop a foundation in clinical pharmacology which provides them with an understanding of basic pharmacology (pharmacokinetics and pharmacodynamics) and the principles of prescribing rationally in the management of common acute and chronic conditions. Students are expected to apply these skills when considering the management of each patient they see, regardless of which rotation they are in.
DP requirements: None
Assessment: Assessment: The pass mark for the course is a final mark of 50% and above. The final mark is made up of in-course assessments (30%) and an end-of-block examination (70%). Students who achieve 48-49% for the final mark will be offered supplementary examination. Students who achieve 47% or less will be required to repeat the course.
MDN4017W  MEDICINE FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN4117X, MDN4217X, MDN4317X, MDN4417X, MDN4517X

15 NQF credits at HEQSF level 8

Convener: Associate Professor CWN Spearman and Dr N Gogela

Course outline:
The course aims to provide a period of clinical training for the Nelson Mandela-Fidel Castro students to gain practical experience with a range of illnesses that are commonly managed in South Africa. The curriculum is mainly clinical presentation-based and aims to: 1) Ensure clinical and technical competence in a real-life clinical setting; 2) Ensure Guideline-based management using the Essential Drug List for district hospitals, SA Medical Formulary and Adult Primary Care or PACK; 3) Empower students to learn on their own. The student will be proficient in the following areas: 1) Clinical skills: Competently take a full history and conduct a complete physical examination; 2) Diagnostic reasoning: Formulate a concise clinical assessment of the patient’s problems; 3) Demonstrate an understanding of the impact of illness on the lives of patients and their families; 4) Communicating skills: Conduct themselves in a professionally appropriate manner when interacting with patients, their families and all categories of healthcare workers.

DP requirements:
Attendance of 13 Bedside Tutorials; Attendance of three Pack Tutorials; Complete and submit eight Medicine portfolio cases with assessment templates by due dates; Complete and submit eight MiniCEX cases by due dates; Attendance of 10 Masterclasses; Attendance of three ECG tutorials; Attendance of four Clinical Intakes; Attendance of four Post Intake Ward Rounds; Attendance of one HIV Counselling session, and Completion and submission of logbook of technical procedures by due dates

Assessment:
1) Clinical examination: 40%; 2) Portfolio of Medicine (Written): 50%; 3) Workplace Assessment: 10% - Ward Mark (5%) and MiniCEX (5%). To pass the course a student requires 50% and must pass two of the three clinical cases. Subject to approval by the Faculty Examinations Committee, a supplementary examination may be granted when a student has obtained a mark between 48% and 49% in only one component of assessment but has passed the others and has obtained 50% or more overall. The student will be required to spend two weeks in Ward Care and improve their portfolio written cases. Students who fail will have to repeat the course.

MDN5000W  MEDICINE FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN5100X, MDN5200X, MDN5300X, MDN5400X, MDN5500X

24 NQF credits at HEQSF level 8

Convener: Associate Professor CWN Spearman

Course outline:
The final year Nelson Mandela-Fidel Castro Internal Medicine Programme is a 6 week block that builds on the MDN4017W course. It involves a 4 week Ward Care rotation, during which students clerk and present 8 patients from intake to discharge. These patients must be included in the written portfolio for medicine. They complete 8 miniCEXs whilst in the ward. Students attend practical bedside teaching sessions. They must complete their logbook of required technical procedures. At the end of the Ward Care rotation, the students should be able to recognise and manage or initiate management of Level T, L1 and selected L2 medical conditions in the National Core Curriculum (Non-acute). During the 2 week Acute Care rotation, the students learn the importance of triaging, assessing and managing acutely unwell patients, as well as managing undifferentiated patients. The students clerk and manage patients within the Emergency Centre and write up 8 patient encounters in their portfolio of learning for Medicine. They complete 8 miniCEXs whilst in the Emergency Centre. They attend 3 Skills Laboratory sessions. At the end of the Acute Care rotation, the students should have covered the E1 and selected E2 topics in the National core curriculum (Acute).
**DP requirements:** WARD CARE: Requires the daily presence in routine working hours (08h00 to 16h00), except on intake days (08h00-22h00) to participate in clinical service delivery. Attend 9 Bedside Tutorials; Attend 3 Ward Intakes; Attend 3 Post Intake Ward Rounds (PIWRs); Complete 8 Medicine portfolio cases with assessment templates; Complete 8 MiniCEX cases; and Complete and submit the logbook of technical procedures. ACUTE CARE: Requires the daily presence during the 8 hour Emergency shifts. Attend 70 hours in the Emergency Centre during the module; Attend all 3 Skill laboratory sessions; Complete 8 Acute Care portfolio cases with assessment templates; Complete 8 Mini-CEXs; Complete all self-directed learning (SDL) tasks; and Complete technical procedures listed in the Department of Medicine logbook.

**Assessment:** Assessment in the Internal Medicine course includes: (i) Workplace based assessment (20%): Ward care (10%) and Acute Care (10%) (Ward Mark (5%) and MiniCEX (5%): Ward Care/Ward Mark (5%) and MiniCEX (5%): Acute Care); (ii) End of Block Assessment (80%) (Clinical examination: 30% and Portfolio of Medicine (Oral): 50%); (iii) Exit Skills Osce: Must pass all stations. This mark accurately reflects the behavior of a young professional, whilst also offering an idea of the strength of the student’s clinical skills (at this mature student internship level) and knowledge base. As part of the medical team (Registrar, Consultants and Interns), students are expected to assume responsibility for the care of a cohort of patients who they will clerk and manage throughout their hospital stay as part of the clinical programme. Students must complete all the DP requirements; complete and submit the Logbook of all the required requirements and achieve an overall pass mark of 50% or more, and must obtain 50% or more for each component of assessment (Clinical assessment, workplace assessment, portfolio) and must pass two of the three clinical cases. Subject to approval by the Faculty Examinations Committee, a supplementary examination may be granted when a student has obtained a mark between 48% and 49% in only one component of assessment, but has passed the others and has obtained 50% or more overall. Before doing the supplementary examination, the student will be required to spend two weeks in Ward Care and add a further four cases to their portfolio of written cases. Students who fail the course or the supplementary examination will have to repeat the course.

**MDN5003H  PHARMACOLOGY AND APPLIED THERAPEUTICS**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN5103X, MDN5203X, MDN5303X, MDN5403X, MDN5503X*

20 NQF credits at HEQSF level 8

**Convener:** Associate Professor P Sinxadi

**Course entry requirements:** Successful completion of all courses within the preceding academic year

**Objective:** The objective of training in pharmacology and therapeutics is to enable students to develop the skills required to prescribe essential medicines rationally in the management of common conditions.

**Course outline:**

The fifth-year course is integrated through rotations in mixed specialties (dermatology, ENT, neurology and neurosurgery), and builds on the foundation of Clinical Pharmacology and Applied Therapeutics learnt in fourth year. The course focuses on applying an understanding of pharmacokinetics and pharmacodynamics to the management of common conditions. It aims to equip students with the skills for critically appraising evidence and judging the risk-benefit profiles of available treatment options and promotes rational drug prescribing to ensure optimal patient care.

**Lecture times:** Lectures take place on Wednesday and Friday afternoons, with bedside presentations on selected Thursday mornings.

**DP requirements:** None.

**Assessment:** The final end of block mark includes the in-course assessments (30%) and an end-of-block examination (70%).
MDN5004W PHARMACOLOGY AND THERAPEUTICS EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN5104X, MDN5204X, MDN5304X, MDN5404X, MDN5504X. This course is taken by South African students who are studying toward the Doctor of Medicine degree from the University of Villa Clara, Faculties of Medicine, in Cuba.
20 NQF credits at HEQSF level 8
Convener: Associate Professor P Sinxadi
Course entry requirements: MDN4015W
Objective: The objective of training in pharmacology and therapeutics is to enable students to develop the skills required to prescribe essential medicines rationally in the management of common conditions.
Course outline:
The 5th year course is integrated through rotations in mixed specialties (dermatology, ENT, neurology and neurosurgery), and builds on the foundation of Pharmacology and Applied Therapeutics learnt in 4th year. The course focuses on applying understanding of pharmacokinetics and pharmacodynamics to the management of common conditions. It aims to equip students with the skills for critically appraising evidence and judging the risk-benefit profiles of available treatment options, and promotes rational drug prescribing to ensure optimal patient care.
Lecture times: Lectures take place on Wednesday and Friday afternoons, with bedside presentations on selected Thursday mornings.
DP requirements: None.
Assessment: The final end of block mark includes the in-course assessments (30%), and an end of block examination (70%).

MDN5005W DERMATOLOGY
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN5105X, MDN5205X, MDN5305X, MDN5405X, MDN5505X
10 NQF credits at HEQSF level 8; 15 face-to-face lectures and 23 Vula modules.
Convener: Dr R Ngwanya
Course entry requirements: Successful completion of all courses within the preceding academic year.
Objective: To master approach to patient with skin disorder in primary care.
Course outline:
This course provides students with the knowledge and clinical skills to treat skin problems commonly encountered in primary care, based on a list of core topics. Students learn about life-threatening conditions they may encounter in clinical practice. Clinical topics have been stratified into “Must know”: the student is expected to have a detailed knowledge of the clinical presentation, laboratory investigation and management, including procedural hands on skills; “must recognize”: the student is expected to have a basic understanding of the clinical features suggestive of diagnosis; a few basic appropriate investigations to assist in the diagnosis; and the management and treatment of these important conditions; and “nice to know”: additional topics/procedures to broaden knowledge and competency, but which do not form part of the assessment. Learning outcomes include clinical skills, clinical reasoning, professional behaviour and personal attributes. Teaching methods include small-group classroom tutorials and inter-active electronic tasks. Clinical teaching takes place in the OPD clinic, where students clerk and present patients to a staff member and peers. Clerked cases are included in the student’s Portfolio of Learning. Cases are described in terms of principles of Primary Health Care that relate to skin diseases, their management, possible psychosocial impact and human rights.
Lecture times: A full timetable is provided at orientation.
DP requirements: At least 75% attendance at tutorials. A student who for any reason is or has been unable to attend an activity or submit a requirement by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Approved absence beyond a certain maximum may require the student to repeat the course.
Assessment: The final mark is made up of an in-course assessment (information pamphlet for patient), to be presented to and marked by the group (20%); and an end-of-block MCQ (based on core clinical topics; 80%).

MDN5006W  RHEUMATOLOGY
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN5106X, MDN5206X, MDN5306X, MDN5406X, MDN5506X
10 NQF credits at HEQSF level 8
Convener: Dr A Gcelu
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
Rheumatology is a two-week rotation and students are placed at Groote Schuur Hospital for the entire block. During the two weeks they are exposed to a series of patient encounters that cover the broad scope of common conditions such as gout, fibromyalgia and osteoarthritis. The patient encounters take place mostly in the outpatient department and other times in the hospital wards. This course covers the common entities in adult and paediatric rheumatology. Core learning outcomes comprise of knowledge of common musculoskeletal diseases and conditions; skills in examination of the musculoskeletal system; application of treatments specific to the speciality; carrying out procedures specific to the speciality; and radiological assessment; as well as professional behaviour appropriate to clinical practice.
DP requirements: Attendance of all activities and completion of the following coursework requirements: Eight Rheumatology clinics; four seminars; two portfolio cases; all academic departmental activities; and nine tutorials. A student who for any reason is or has been unable to meet the above requirements by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Activities will need to be made up where required. Where they cannot be made up the student may have to repeat the course.
Assessment: In-course-assessment (10%); end-of-block clinical examination (30%); and an end-of-block OSCE (60%). If a student fails the course with 48% or 49% a recommendation will be made to the Faculty Examinations Committee that the student spend two weeks in rheumatology before undergoing a supplementary examination.
MDN6000W  MEDICINE (INCLUDING ALLIED DISCIPLINES)
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN6100X, MDN6200X, MDN6300X, MDN6400X, MDN6500X
41 NQF credits at HEQSF level 8; Nine bedside tutorials in ward care; three Pharmacology tutorials; two ECG tutorials; three skills lab sessions in acute care.

Convener: Dr A Gcelu (MDN6000W); Dr A Gcelu (Ward Care); Dr A Kropman (Acute Care); Dr T Bana (Ambucare); J Irlam (Evidence Based Medicine (EBM))

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
The eight-week course includes a four-week rotation in Internal Medicine (Ward Care) at Mitchell’s Plain District (MPDH), New Somerset (NSH), Victoria (VHW) or George (GH) Hospitals, two weeks in Ambucare at GSH and two weeks in Acute Care at either GSH, MPDH or NSH. In the Eden district students spend two weeks of Acute/Ambucare in George followed by another two weeks in Oudtshoorn Hospital. During Ward Care students undertake compulsory clinical clerkship attachments where they interview and examine or clerk patients and writing patient reports. There are compulsory after-hours clinical duties. They develop a portfolio of learning in which they collate all the case records of patients. During Ambulatory Care students attend the outpatient department clinic from Monday to Thursday where they clerk two new patients under supervision. They make diagnostic maps on at least 12 other patients attending the clinic. During Acute Care students learn the importance of triaging, assessing and managing acutely unwell patients and managing undifferentiated patients. They are allocated to an Emergency Centre and attend shifts in that centre working as part of the team during their shift. They clerk and manage patients and write up the patient encounters in their portfolio of learning.

DP requirements: Attendance of all activities and completion of all coursework stipulated below: Ward care module: Four admission intakes as scheduled; four post-intake ward rounds (PIWRs); nine bedside tutorials; 12 mini-CEX cases; write-up of at least 12 patient encounters during the module, to be included in portfolio of learning; completion of portfolio compiled in 5th year comprising Rheumatology, Neurology and Dermatology cases, with two cases from each of these courses; completion of procedures listed in the Department of Medicine logbook by due date. Ambucare module: Presentation and write-up of at least 12 patients evaluated in the OPD during the module; compilation of 12 diagnostic maps of patients discussed in the OPD during the module; completion of 12 Mini-CEXs by due date/s; attendance of eight OPD clinics during the module; attendance of all Friday morning academic meetings in the Department of Medicine conference room; and completion of procedures listed in the Department of Medicine logbook. Acute Care module: Attendance of 70 hours in the allocated EC during the module; attendance of three Skill Lab sessions; 12 patient encounters and completion of 12 Mini-CEX cases; completion of all self-directed learning (SDL) tasks and of procedures listed in the Department of Medicine logbook by due date/s. Evidence-based Medicine module: Attendance at workshop and completion of an individual assignment by due date/s.

Assessment: The final course mark is made up of the following: (i) Work place based assessment (WPBA) (30%), made up of Ward Care Assessment (10%); Ambucare Assessment (10%); and Acute Care Assessment (10%); (ii) Evidence Based Medicine (5%); (iii) End of course assessment (65%), made up of a clinical examination (30%); an oral portfolio examination (20%); and a theory (MCQ) examination (15%); (iv) Exit Skills Osce (must pass all stations) (This is assessed under MDN6004W Exit Examination on Procedural Competence). A subminimum of 50% is required for each of the following: Clinical assessment, work place assessment, portfolio oral and theory assessment. Subject to approval by the Faculty Examinations Committee, a supplementary examination may be granted when a student has obtained 48% or 49% in only one component of assessment but has passed the others and has obtained 50% or more overall. The student will be required to spend two weeks in Ward Care and collect a new set of portfolio cases.
MDN6003W  MEDICINE EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: MDN6103X, MDN6203X, MDN6303X, MDN6403X, MDN6503X. This course is taken by South African students studying towards a Cuban medical degree.

16 NQF credits at HEQSF level 9; 4 weeks minimum of 12 clinical tutorials over this time.

Convener: Associate Professor B Hodkinson

Course entry requirements: All 5th year MBChB courses.

Objective: Proficiency in clinical medicine.

Course outline:
Students complete a four-week rotation in general medicine attached to an acute general medicine firm at one of the UCT-affiliated teaching hospitals. They are expected to become an integrated member of the clinical team participating in all the weekly clinical activities including intakes, ward rounds, x-ray meetings, clinical meetings and bedside tutorials. As part of their clinical training they are expected to clerk and manage at least three patients per week during their four-week clinical attachment. These 12 clinical cases are written up as patient cases in a portfolio of learning which forms part of the course assessment.

DP requirements: Attendance at all intakes and post-intake ward rounds as well as all bedside tutorials and departmental academic meetings, including x-ray meetings. These activities are monitored by completion of a logbook. Students are also required to complete a portfolio of learning for which they are required to collate at least 12 patient case records reflecting the in-hospital course and management they have provided.

Assessment: The final mark is made up of an end-of-block clinical examination based on three patient encounters (40%), an end-of-block oral examination (40%) based on the portfolio of cases managed during the clerkship and an in-course assessment (20%) of clinical competence, theoretical knowledge and professional behaviour.
OBSTETRICS AND GYNAECOLOGY

H-Floor, Old Main Building, Groote Schuur Hospital

Professor and Head:
LA Denny, MBChB PhD Cape Town MMed FCOG SA

Professor and Deputy Head:
SJ Dyer, MBChB Munich PhD Cape Town MMed FCOG SA

Emeritus Professors and Senior Scholars:
SR Fawcus, MA MBBS London MRCOG FRCOG UK
ZM van der Spuy, MBChB Stell PhD London FRCOG FCOG SA

Honorary Professors:
JPWR Roovers
P Steer, MBBS London MRCS LRCP MD MRCOG FRCOG

Associate Professors Full-time:
J Anthony, MBChB Cape Town FCOG SA MPhil Stell
M Matjila, BSc MBChB UKZN FCOG SA PhD Cape Town

Honorary Associate Professors:
SW Lindow, MBChB Sheffield MMed MD FRCOG FCOG SA
R Parkar, MBBS Mysore MMed Nairobi
PS Steyn, MBChBMMed FCOGSA DFFP London MPhil Stell

Emeritus Associate Professors:
EJ Coetzee, MBChB Cape Town FRCOG FCOG SA
A Kent, MBChB MPhil Cape Town FRCOG
HA van Coeverden de Groot, MBChB Cape Town FRCOG (Community Obstetrics)

Chief Specialist Level Two Service and Head New Somerset Hospital:
GA Petro, MBChB Cape Town FCOG SA

Head Clinical Unit Mowbray Maternity Hospital (Specialist Level Two Service):
CJM Stewart, BA MBChB MMed Cape Town FCOG SA MRCOG

Senior Lecturers Full-time:
T Adams, MBChB MMed Cape Town FCOG SA Cert (Gynaecol Oncol) SA
C Gordon, MBChB Cape Town MPhil Stell
TA Horak, MBChB Stell FCOG SA MMed Cape Town
JK Marcus, MPhil Stell PGDip (Nursing) Cape Town RM RPN RCN RPychN Fellow SAFRI (FAIMER)
NH Mbatani, MBChB Medunsa FCOG SA
A Osman, MBChB MMed MPhil Cape Town FCOG SA Cert (Maternal Fetal Medicine) SA
M Patel, MBChB MMed Cape Town FCOG SA Cert (Reproductive Medicine) SA
D Richards, MBChB Stell MMed Cape Town FCOG, Cert (Gynaecol Oncol) SA
L Schoeman, MBChB Cape Town MMed FCOG SA

Senior Lecturers Part-time:
A Alperstein, MBChB Wits FRCOG FCOG SA
PR de Jong, MBChB Pret MMed Cape Town FCOG SA FRCOG
C Elliott, MBChB FCOG SA
AS Lachmann, MBBC Ch Witwatersrand MD FCP SA
LJ Rogers, MBChB MMed Cape Town DCH SA FCOG SA Cert (Gynaecol Oncol) SA RCOG
P Roos, MBChB Cape Town FRCOG UK
R Soeters, MD PhD MMMC

Lecturers Full-time:
S Allie, MBChB Cape Town FCOG SA
KJ Brouard, MBChB Cape Town FCOG SA
A Fakier, MBChB Cape Town FCOG SA
K Kadwa, MBChB UKZN MMed Cape Town FCOG SA
D Kennedy, MBChB Stell FCOG SA MMed Cape Town
Z Momberg, MBChB MMed Cape Town FCOG SA Certificate (Maternal Fetal Medicine) SA
L Ras, MBChB MMed Cape Town FCOG SA Urogyn SA T Spence FCOG SA

Lecturers Part-time:
U Botha, MBChB Stell MMed Cape Town FCOG SA
G Breeds, MBChB Cape Town FCOG SA
K Chambers MBChB Cape Town FCOG DCH MMed JPF Dalmeyer MBChB Pret FCOG SA PhD Stell
AR Dhansay, BSc UDW MBChB UKZN FCOG SA
D Dumbrill, MBChB Cape Town FCOG MRCOG DA SA
C Frenzel, MBChB Germany
L Jansen, MBChB Cape Town FCOG SA
C Nel, MBChB Cape Town FCOG SA
A Newham, MBChB Cape Town FCOG SA
MS Puzey, MBChB MMed Cape Town FCOG SA
JR Robinson, MBBS Perth MRACOG FCOG SA MRCOG
J Rowlinson, MBChB Witwatersrand
SW Sandler, MBChB Cape Town FRCOG London MA MPhil Stell
R Sheldon, BA RN
M Wasserman, MSocSc UFS DHS San Francisco
H Wright, MBChB Cape Town
P Zinn, MBChB Witwatersrand MRCOG London MMed

Doctorate:
R Saidu, MBBS Nigeria FMCOG MPH

Fellows Full-time:
J Birungi, MBChB MMed Makerere
G Essilfie-Appiah, MBChB Ghana FCOG SA MMed
R Karaga, MBChB MMed Zimbabwe
N Ngxola, MBChB WSU FCOG SA
A Owusu-Bempa, MBChB KNUST Ghana FWACS West Africa College
R Tshikosi, MBChB UKZN MMed Cape Town FCOG SA
M Venter, MBChB Pret FCOG SA MMed Cape Town

Fellows Part-time:
P Archary, MBChB UKZN MMed Cape Town FCOG SA
G Mohlaba, MBChB Medunsa FCOG SA MMed Cape Town
L Oosthuizen, MBChB MMed Cape Town FCOG SA

Heads of Firm:
BR Howard, MBChB Cape Town FCOG SA
S Jeffrey, MBChB Stell FCOG SA Cert (Urogynaecology) RCOG
JO Olarogun, MBBS  
*Ilorin* Dip (Obstetrics & Gynaecology) FCOG SA  
MMed *Cape Town* Cert  
(Rep Med) SA

**Honorary Senior Lecturers:**  
M Mbenge, MBChB  
Pret MMed FCOG SA  
CP Nel, MBChB  
*Cape Town* MRCOG FRANZCOG FRCOG

### OBS2001S  SPECIAL STUDY MODULES

16 NQF credits at HEQSF level 6  
**Convener:** Dr V Zweigenthal  
**Course entry requirements:** All first year MBChB courses.  
**Objective:** The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.  
**Course outline:**  
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.  
**DP requirements:** Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.  
**Assessment:** Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.

### OBS4003W  OBSTETRICS

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS4103X, OBS4203X, OBS4303X, OBS4403X, OBS4503X  
30 NQF credits at HEQSF level 8; 32 lectures comprising of 30 obstetrics lectures and two languages (IsiXhosa) lectures. Two Obstetric skills training sessions. A minimum of seven tutorials. Clinical placement at secondary level hospitals (Mowbray Maternity or New Somerset) x 3 weeks clinical placement at Midwife Obstetric Unit (Mitchell’s Plain or Vanguard) x 1 week. Midwife Obstetric Unit day visits (Retreat or Hanover Park) x 5 days.  
**Convener:** Dr TA Horak and JK Marcus  
**Course entry requirements:** Successful completion of all courses within the preceding academic year.  
**Co-requisites:** PED4016W. The obstetrics and neonatal components of the course must be passed individually.  
**Objective:** The purpose of the course is to acquaint the student with regionalised perinatal care; and to develop the knowledge, skills, and attitudes to provide safe, effective, and compassionate maternal care in primary and secondary perinatal care settings.
Course outline:
Obstetrics runs within an eight-week block. It builds on the introduction provided in the third-year programme and forms part of a progressive spiral curriculum that runs through to the final year. During this time, students acquire the knowledge, skills and professional conduct required for medical practice. Teaching takes place within the Maternal and Neonatal Service: Metro West, which exposes students to primary (or community-based) and secondary (hospital-based) levels of care. Practical experience for Obstetrics (and Neonatology - see PED4016W) is recorded in a logbook, and includes at least 10 deliveries under supervision and caring for at least eight women in the first stage of labour. Further details are specified in the logbook. Students are encouraged to develop professional behaviour, as well as to develop empathic and caring attitudes through compassion tutorials and a Health and Human Rights workshop. The programme is supplemented by a series of lectures, tutorials and skills training sessions that cover topics within the discipline, as well as contributions from other disciplines, in order to provide an integrated, multidisciplinary approach to common perinatal problems. The knowledge and skills acquired during the 4th year programme form the foundation of Obstetric and Neonatal medicine.

Lecture times: Lectures are scheduled for the duration of week 1 (Monday to Friday) then on Mondays in weeks 3, 5 and 8 of the block.

DP requirements: Deliver at least 10 patients; perform at least 10 vaginal examinations in labour; monitor and care for at least eight patients during the first stage of labour; do at least seven night calls during the block; attend and participate in at least five obstetric ward rounds at a secondary level hospital, as well as seven obstetric tutorials given by either student interns or clinicians; and attend at least six of the eight 8 Academic Day lecture series. Additionally, students will need to prepare two typed case reports, which must include a discussion of at least 300, but no more than 400 words, and include three references. These will be presented to clinicians/tutors during the secondary-level hospital attachment, and the student needs to achieve at least 60% to obtain DP. If the student has six or seven deliveries by the start of the assessment week, DP may be granted provided the minimum of seven calls has been completed during the block. If DP has not been met early in the block, for example in week 1, the entire block must be repeated. If DP has not been met by the end of week eight, regardless of circumstances, the block must be repeated. If DP has not been met by Monday of week eight due to certified illness, the student may sit for the exam at the end of the following block, provided DP is met by the end of week eight of the current block. If assessment is missed due to illness or other valid reason the student may apply for a deferred exam, which will be supported only if DP was met by end of week eight.

Assessment: The assessment for Obstetrics will comprise of an OSCE and an MCQ examination, which will both take place during the last week of the block. OBS4003W Obstetrics and PED4016W Neonatology (informally called a joint perinatal medicine rotation) will be jointly examined during these examinations. Each student must achieve a combined OSCE + MCQ mark of ≥ 50% in order to pass the Obstetrics and Neonatology components of the two examinations. Additionally, each student must achieve a minimum of ≥ 50% for the Obstetric and Neonatal components individually in order to pass the joint perinatal rotation as a whole. Any student who obtains ≤ 47% for Obstetrics or Neonatology will need to repeat the full joint perinatal medicine rotation – i.e. both OBS4003W and PED4016W. Should a student obtain a mark of between 48% or 49%, a recommendation will be made to the Faculty Examinations Committee that the student be offered a supplementary assessment (OSCE + MCQ) in a subsequent block.
OBS4005W  OBSTETRICS AND GYNAECOLOGY EXTERNAL CREDIT
This course is taken by South African students studying towards a Cuban medical degree.
20 NQF credits at HEQSF level 8
Convener: Dr TA Horak and Sr C Zeelenberg
Course entry requirements: Prior courses as required by the relevant Cuban medical training programme.
Course outline:
This is an eight-week block shared between obstetrics and neonatology. During the obstetrics blocks students acquire the knowledge, skills and professional conduct required for obstetric practice. Teaching takes place within the Maternal and Neonatal Service: Metro West, which exposes students to primary (or community-based) and secondary (or hospital-based) levels of care. Students also attend the tertiary academic centre for two weeks in order to gain a well-rounded perspective of common serious obstetric conditions. Practical experience is recorded in a logbook and includes at least 10 deliveries under supervision. Students are encouraged to develop professional behaviour; as well as to develop empathic and caring attitudes through compassion tutorials and a Health and Human Rights workshop. The programme is supplemented by a series of lectures, tutorials and skills training sessions that cover topics within the discipline, as well as contributions from other divisions in order to provide an integrated, multidisciplinary approach to common problems.
DP requirements: Full attendance and completion of all coursework by the due dates. Failure to adhere to these criteria may result in extra time or outright failure of the block. All requisite coursework/clinical work as well as completion of a logbook (including 10 deliveries) by the due date is mandatory.
Assessment: Students are examined at the end of the block, but not at the end of the year. Completion of the required number of practical procedures is mandatory and has to be signed off in the logbook. The end-of-block assessment includes an in-course assessment (15%), case presentations (15%), an OSCE (55%), and the presentation of research projects (15%). Students are required to pass each assessment mode before qualifying to pass the block as a whole, failing which they repeat the relevant assessments, the pass marks for which are 50%. The in-course assessment includes professionalism (punctuality, dress code, extent of involvement in course activities – including clinical activities, attitude towards patients, colleagues and required activities, team work, conscientiousness); and clinical knowledge and skills. Should the student score under 60% for this in-course assessment, he/she may be disqualified from writing the end-of-block exam, and/or given extra time. Students who fail the end-of year examinations may be offered oral re-examinations before the final mark is submitted.

OBS4006W  OBSTETRICS FOR EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS4106X, OBS4206X, OBS4306X, OBS4406X, OBS4506X
15 NQF credits at HEQSF level 8
Convener: JK Marcus
Objective: The purpose of the course is to acquaint the student with regionalised perinatal care and to develop the knowledge, skills, and attitudes to provide safe, effective and compassionate maternal care in primary and secondary perinatal care settings.
Course outline:
At the end of the course the student should be able to: Understand regionalised perinatal care and the referral system in the Maternal and Neonatal Service: Metro West. Take a comprehensive history from and examine a pregnant woman. Calculate the estimated date of delivery. Perform an examination of the pregnant abdomen using the Leopold's manoeuvres. Complete and record findings on an antenatal record, including symphysis fundal measurements. Advise patients on and treat the minor disorders of pregnancy. Screen, recognise and simply treat the common problems in pregnancy i.e. anaemia, syphilis, UTI's, HIV. Understand and initiate the components of the prevention of mother to child transmission of HIV programme. Recognise, initially manage and refer complications associated with pregnancy e.g. hypertensive disorders of pregnancy, gestational diabetes, obstetric haemorrhage. Use the partogram during labour. Perform a vaginal examination to
assess the progress of labour. Monitor fetal wellbeing by intermittent auscultation or electronically. Understand and explain the mechanism of normal labour. Analyse and categorise a cardiotocograph tracing. Recognise and manage, in a team, prolonged or obstructed labour. Conduct a normal vaginal delivery under supervision. Actively manage the third stage of labour to prevent post-partum haemorrhage. Repair a first or second degree perineal tear. Recognise and refer prolonged pregnancy. Understand the indications and methods for induction of labour. Understand and articulate the indications, risks and complications of Cesaerean section. Recognise and refer medical disorders in pregnancy e.g. cardiac disease, renal disorders, auto-immune disorders. Recognise, initally manage and refer preterm labour. Recognise and refer premature rupture of membranes. Recognise and refer intrauterine growth restriction. Understand the indications and prerequisites for operative vaginal delivery with either an obstetric forceps or vacuum device. Recognise and manage, in a team, obstetric emergencies such as breech birth, shoulder dystocia and cord prolapse. Take a history and examine a woman in the puerperium. Provide counselling on available methods of contraception. Demonstrate compassionate care throughout all stages of pregnancy, labour and the postnatal period

**DP requirements:** Attend at least 6 of the 8 lecture series days. Registers will be kept. Deliver at least 10 patients under supervision and examine the newborns immediately after delivery. Perform at least 10 vaginal examinations in labour. Care for at least 8 patients in the first stage of labour. Record labour progress, fetal condition and maternal condition on a partogram on at least two occasions for a minimum of 5 patients. Analyse and categorise a minimum of 5 cardiotocograph tracings of real patients. Clerk at least 5 obstetric patients (antenatal or postnatal) and write clinical notes. 2 case presentations to medical officer/Registrar/consultant for which a minimum score of 60% is required. The cases can be from the 5 clerked patients in the previous point. The cases presented must be typed-up and must include a discussion of +300 words with at least 3 references. Do at least 7 calls during the block: 5 at secondary hospital and 2 at the MOU. If 7 calls have been completed AND 8 or more deliveries were conducted, the student may participate in the end of block assessment. The assessment week can be used to complete deliveries. Marks will not be released until all DP requirements are met. Attend and participate in at least 5 Obstetric ward rounds at a secondary hospital. Attend 7 Obstetric tutorials given by either student interns or clinicians. To avoid undue repetition of topics a list is provided of subjects on page 2 of this logbook that must be covered during the Obstetric block.

**Assessment:** Objective Structured Clinical Examination (OSCE) in the final week of the block. Each student must achieve a minimum mark of 50% in order to pass the Obstetrics component of the examination. Any student who obtains 47% or less for Obstetrics will need to repeat the full rotation. Should a student obtain a mark between 48% to 49%, a recommendation will be made to the Faculty Examinations Committee that the student be offered a supplementary assessment on a subsequent opportunity.

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**OBS5005W** **GYNAECOLOGY**

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS5105X, OBS5205X, OBS5305X, OBS5405X, OBS5505X. This course is also taken by South African students studying towards a Cuban medical degree. Students join the same course as UCT students.

20 NQF credits at HEQSF level 8

**Convener:** Dr C Gordon and Dr D Richards

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Course outline:**

The block consists of six weeks of Gynaecology. The Gynaecology course builds on the prior three weeks of learning in Women’s Health during Semester Six. Students have already learnt to take histories from patients and to examine women using models, and have been exposed to the broader issues about women’s health; and have been introduced to the role of gender in health promotion. In this course they learn about common gynaecological problems, contraception, issues of sexuality, and abuse of women, at the same time gaining clinical experience in gynaecology and women’s
health. Teaching takes place in a variety of clinical venues where students learn how to perform a gynaecological examination on patients, mostly in an outpatient setting, which is most appropriate for their future practice. The gynaecology clinical teaching is complemented by tutorials and clinical skills sessions, as well as further teaching in the relevant basic sciences. Core learning outcomes: Students are required to build on their basic knowledge of gynaecology practice; to formulate professional attitudes and behaviours by being involved in primary and tertiary gynaecologic care; to develop empathetic attitudes towards patients; to become reflective health care practitioners; to explore their attitudes and beliefs about controversial issues such as sexuality, intimate partner violence and termination of pregnancy; and to continue along the road of self-directed learning.

Lecture times: Friday mornings.

DP requirements: Students are required to attend and participate in all ward, clinic and theatre activities, as per the programmes of the individual firms. They are expected to be in attendance for the full working day and may not leave without permission from a registrar or consultant. Skills training sessions are compulsory. The LGBT, TOP and intimate partner violence workshops are compulsory, as are post-workshop reflective commentaries. Professionalism is assessed, which includes punctuality, attendance and conscientiousness. These are monitored by the consultants, and registrars in these firms, and form part of the in-course assessment. Should the in-course assessment be less than satisfactory, students may be required to do extra time. Completion of the logbook is a DP requirement. Each procedure must be individually signed off. All procedures are to be completed within the six-week block. Failure to complete the logbook by the end of the block will mean the student is not allowed to write the end-of-block exams. The submission of four portfolio case reports is also a DP requirement. A record of patient clerking is also a DP requirement. This includes eight patient clerking notes, carbon copies of which must be submitted with the portfolio. A student absent for less than three days will not have to repeat that time but will still be expected to have a completed logbook in order to sit the exam. A student absent for more than three days will have to meet with the convener urgently to decide on the available options, which could include extra time, a deferred exam, or repeating the block, depending on the reason for and duration of absence. The course manual includes details.

Assessment: Pass marks for all examination modalities is 50%. The pass mark for the block is 50%. There are three components to the summative assessment. 1) Portfolio exam (20%). This takes place during the block. Students must write up four patient cases which must be submitted for a written mark. Hand-in dates are arranged with firm consultants. Carbon copies of patient clerking notes must be included with the portfolio. 2) End-of-block OSCE (40%): A student must pass this to pass the block. MCQ (40%): A student must pass this to pass the block. The overall block pass mark is 50%. A mark of <50% for the OSCE or MCQ constitutes a fail. The consequence of this fail will depend on the block mark. A block mark of < 48% with either exam failed will mean that the student repeats the entire block. A block mark of greater than or equal to 48% with either exam failed will mean that the student will repeat only the exam that they failed. If the student gets less than 50% for the block overall, they will have to repeat the block.
OBS5006W  GYNAECOLOGY FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS5106X, OBS5206X, OBS5306X, OBS5406X, OBS5506X

27 NQF credits at HEQSF level 8

Convener: Dr C Gordon and Dr K Kadwa

Course outline:

In this four-week Gynaecology course students learn about common gynaecological problems, contraception, issues of sexuality, and abuse of women, while at the same time gaining clinical experience in gynaecology and women’s health. Teaching takes place in a variety of clinical venues where students learn how to perform a gynaecological examination on patients, mostly in an outpatient setting, which is most appropriate for their future practice. The gynaecology clinical teaching is complemented by tutorials and clinical skills sessions, as well as further teaching in the relevant basic sciences. Core learning outcomes: Students are required to build on their basic knowledge of gynaecology practice; to formulate professional attitudes and behaviours by being involved in primary and tertiary gynaecologic care; to develop empathetic attitudes towards patients; to become reflective health care practitioners; to explore their attitudes and beliefs about controversial issues such as sexuality, intimate partner violence and termination of pregnancy; and to continue along the road of self-directed learning.

DP requirements: All DP requirements must be fulfilled in order to write the exams. Students are expected to attend and participate in all ward, clinic and theatre activities, as per the programmes of the individual firms. They are expected to be in attendance for the full working day and may not leave without permission from a registrar or consultant. Skills training sessions are compulsory. The LGBT, TOP and intimate partner violence workshops are compulsory, as are post-workshop reflective commentaries. Professionalism will be assessed, which includes punctuality, attendance and conscientiousness. These are monitored by the consultants, and registrars in these firms, and form part of the in-course assessment. Should the in-course assessment be less than satisfactory, students may be required to do extra time. Completion of the logbook is a DP requirement. Each procedure must be individually signed off. All procedures are to be completed within the 4-week course. Failure to complete the logbook by the end of the course will mean the student will not be allowed to write the end of block exams. The submission by the due date of the stipulated minimum number of portfolio case reports is also a DP requirement. A record of patient clerking is also a DP requirement. This includes the stipulated minimum number of patient clerking notes as stated in the course manual, carbon copies of which must be submitted with the portfolio. A student absent for under 3 days will not have to repeat that time but will still be expected to have a completed logbook in order to sit the exam. A student absent for more than 3 days will have to meet with the convener urgently to decide on the available options, which could include extra time, a deferred exam, or repeating the course, depending on the reason for and duration of absence. Please check the course manual for more information.

Assessment: Pass marks for all examination modalities is 50%. The pass mark for the course is 50%. There are 3 components to the summative assessment. 1) Portfolio exam (20%). This takes place during the course. Students must write up and submit by the due date the stipulated minimum number of patient cases as stated in the course manual for a written mark. Hand-in dates are arranged with firm consultants. Carbon copies of patient clerking notes must be included with the portfolio. 2) End of block OSCE (40%): A student must pass this to pass the course. 3) End of block on-line MCQ (40%): A student must pass this to pass the course. The overall course pass mark is 50%. A mark of <50% for the OSCE or MCQ constitutes a fail. The consequence of this fail will depend on the course mark. For a course mark of <48% with either exam failed, the student will be required to repeat the course. For a course mark of greater than or equal to 48% with either exam failed, a supplementary exam will be recommended for the student to repeat the exam that they failed.
OBS5007W  OBSTETRICS FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS5107X, OBS5207X, OBS5307X, OBS5407X, OBS5507X

41 NQF credits at HEQSF level 8

Convener: JK Marcus and Dr KJ Brouard

Course outline:
This is a four week Obstetrics course. Teaching is practical and involves patient assessment and management under supervision in clinics, antenatal and postnatal wards, labour wards, and theatre. Students are expected to monitor and follow up their patients throughout labour or ward admission. All clinical and teaching activities are compulsory. There are two whole group interactive seminars per week. At the end of the block, students will be expected to be competent in obstetric history-taking and examination; including speculum examination, vaginal examinations in labour, labour monitoring and delivery and assisting at common operations. During the course, students are required to write up the minimum number of portfolio cases as stipulated in the course manual. These are examinable at the end of the course. Students are expected to dress professionally and wear white coats or scrubs and their student cards at all times.

DP requirements: All DP requirements must be fulfilled in order to write the exams. Students are required to attend and participate in all ward, clinic and labour ward duties, as per the programmes of the individual firms. They are expected to be in attendance for the full working day and may not leave without permission from a registrar or consultant. Attendance at Tuesday and Thursday seminars is compulsory. At least two formative bedside case presentations on ward rounds must be signed off by ward doctors during the block. Professionalism is assessed, which includes punctuality, attendance and conscientiousness. These are monitored by the consultants, midwives and registrars in these firms, and form part of the in-course assessment. Should the in-course assessment be less than satisfactory, students may be required to do extra time. Completion and submission by the due date of the logbook is a DP requirement. Each procedure must be individually signed off. All procedures are to be completed within the four-week course. Failure to complete the logbook by the end of the course will mean the student will not be allowed to write the end of rotation OSCE/OSPE. The submission of the minimum number of portfolio case reports as stipulated in the course manual is also a DP requirement. This includes the stipulated minimum number of patient clerking notes, carbon copies of which must be submitted with the portfolio. A student absent for under three days will not have to repeat that time but will still be expected to have a completed logbook in order to sit the exam. A student absent for more than three days will have to meet with the convener urgently to decide on the available options, which could include extra time, a deferred exam, or repeating the block, depending on the reason for and duration of absence. The course manual contains details.

Assessment: Pass marks for all examination modalities is 50%. The pass mark for the course is 50%. End of block assessment: There are three components to the summative assessment. 1) A formal bedside case presentation (10%); 2) a portfolio oral exam (20%); and 3) an OSCE/OSPE examination (70%). In order to qualify for the OSCE/OSPE, all time must be completed, and all DP requirements met. Should a student fail the OSCE/OSPE, they may either qualify for a supplementary exam or have to repeat the course, depending on the mark. A mark of <50% for the OSCE/OSPE constitutes a fail. The consequence of this fail will depend on the course mark. A course mark of < 48% with the OSCE/OSPE failed, will mean that the student repeats the entire course. A course mark of greater than or equal to 48% with the OSCE/OSPE failed, will mean that the student will qualify for a supplementary exam only. Finally, students must pass a skills station-part of the Multi-Disciplinary Exit OSCE. In order to pass the skills station, students must attain at least 70% for that skill demonstration. Should the student fail the skills station they will be remediated until they pass.
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS6100X, OBS6200X, OBS6300X, OBS6400X, OBS6500X

41 NQF credits at HEQSF level 8

Convener: Dr KJ Brouard and Dr CJM Stewart

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
This is a four-week Obstetrics block. Teaching is practical and involves patient assessment and management under supervision in clinics, antenatal and postnatal wards, labour wards, and theatre. Students are expected to monitor and follow up their patients throughout labour or ward admission. All clinical and teaching activities are compulsory. There are two whole group interactive seminars per week- also compulsory. At the end of the block, students will be expected to be competent in obstetric history-taking and examination; including speculum examination, vaginal examinations in labour, labour monitoring and delivery and assisting at common operations. Students are required to write up 4 portfolio cases during their block. These are examinable at the end of the block. Students are expected to dress professionally and wear white coats or scrubs and their student cards at all times.

DP requirements: All DP requirements must be fulfilled in order to write the exams. Students are required to attend and participate in all ward, clinic and labour ward duties, as per the programmes of the individual firms. They are expected to be in attendance for the full working day and may not leave without permission from a registrar or consultant. Attendance at Tuesday and Thursday seminars is compulsory. At least two formative bedside case presentations on ward rounds must be signed off by ward doctors during the block. Professionalism is assessed, which includes punctuality, attendance and conscientiousness. These are monitored by the consultants, midwives and registrars in these firms, and form part of the in-course assessment. Should the in-course assessment be less than satisfactory, students may be required to do extra time. Completion of the logbook is a DP requirement. Each procedure must be individually signed off. All procedures are to be completed within the four-week rotation. Failure to complete the logbook by the end of the rotation will mean the student will not be allowed to write the end of rotation OSCE/OSPE. The submission of four portfolio case reports is also a DP requirement. This includes eight patient clerking notes, carbon copies of which must be submitted with the portfolio. Finally, students must pass a skills station- part of the Multi-Disciplinary Exit OSCE (10%). In order to pass the skills station, students must attain at least 70% for that skill demonstration. Should the student fail the skills station they will be remediated until they pass. A student absent for under three days will not have to repeat that time but will still be expected to have a completed logbook in order to sit the exam. A student absent for more than three days will have to meet with the convener urgently to decide on the available options, which could include extra time, a deferred exam, or repeating the block, depending on the reason for and duration of absence. The course manual contains details.

Assessment: Pass marks for all examination modalities is 50%. The pass mark for the block is 50%.

End-of-block assessment: There are three components to the summative assessment. 1) A formal bedside case presentation (10%); 2) a portfolio oral exam (20%); and 3) an OSCE/OSPE examination (70%). In order to qualify for the OSCE/OSPE, all time must be completed, and all DP requirements met. Should a student fail the OSCE/OSPE, they may either rewrite or have to repeat the course, depending on the mark. A mark of <50% for the OSCE/OSPE constitutes a fail. The consequence of this fail will depend on the block mark. A block mark of < 48% with the OSCE/OSPE failed, will mean that the student repeats the entire block. A block mark of greater than or equal to 48% will mean that the student will repeat the exam only.
OBS6001W  OBSTETRICS FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: OBS6101X, OBS6201X, OBS6301X, OBS6401X, OBS6501X. This course is taken by South African students studying towards a Cuban medical degree.

20 NQF credits at HEQSF level 8

Convener: Dr KJ Brouard, Dr CJM Stewart and Dr D Richards

Course entry requirements: Fifth year MBChB courses.

Objective: To prepare students for best practice in primary and secondary care obstetrics.

Course outline:
This is a four-week Obstetrics block. Teaching is practical and involves patient assessment and management under supervision in clinics, antenatal and postnatal wards, labour wards, and theatre. Students are expected to monitor and follow up their patients throughout labour or ward admission. All clinical and teaching activities are compulsory. There are two whole group interactive seminars per week- also compulsory. At the end of the block, students will be expected to be competent in obstetric history-taking and examination; including speculum examination, vaginal examinations in labour, labour monitoring and delivery and assisting at common operations. Students are required to write up four portfolio cases during their block. These are examinable at the end of the block. Students are expected to dress professionally and wear white coats or scrubs and their student cards at all times.

DP requirements: All DP requirements must be fulfilled in order to write the exams. Students are expected to attend and participate in all ward, clinic and labour ward duties, as per the programmes of the individual firms. They are expected to be in attendance for the full working day and may not leave without permission from a registrar or consultant. Attendance at Tuesday and Thursday seminars is compulsory. At least two formative bedside case presentations on ward rounds must be signed off by ward doctors during the block. Professionalism will be assessed, which includes punctuality, attendance and conscientiousness. These are monitored by the consultants, midwives and registrars in these firms, and form part of the in-course assessment. Should the in-course assessment be less than satisfactory, students may be required to do extra time. Completion of the logbook is a DP requirement. Each procedure must be individually signed off. All procedures are to be completed within the four-week block. Failure to complete the logbook by the end of the block will mean the student will not be allowed to write the end of block OSCE/OSPE. The submission of four portfolio case reports is also a DP requirement. This includes eight patient clerking notes, carbon copies of which must be submitted with the portfolio. A student absent for under three days will not have to repeat that time but will still be expected to have a completed logbook in order to sit the exam. A student absent for more than three days will have to meet with the convener urgently to decide on the available options, which could include extra time, a deferred exam, or repeating the block, depending on the reason for and duration of absence. Please check the course manual for more information.

Assessment: Pass marks for all examination modalities is 50%. The pass mark for the block is 50%. End of block assessment: There are 3 components to the summative assessment. 1) A formal bedside case presentation (10%); 2) a portfolio oral exam (20%); 3) an OSCE/OSPE examination (70%). In order to qualify for the OSCE/OSPE, all time must be completed, and all DP requirements met. Should a student fail the OSCE/OSPE, they may either rewrite or have to repeat the course, depending on the mark. A mark of <50% for the OSCE/OSPE constitutes a fail. The consequence of this fail will depend on the block mark. A block mark of < 48% with the OSCE/OSPE failed, will mean that the student repeats the entire block. A block mark of greater than or equal to 48% will mean that the student will repeat the exam.
PAEDIATRICS AND CHILD HEALTH

ICH Building, Red Cross War Memorial Children’s Hospital, Rondebosch

Professor and Head:
AC Argent, MBBCh MMed Witwatersrand MD Cape Town DCH FCPaed Cert (Critical Care) SA FRCPCH UK

Professors:
A Davidson, MBChB Cape Town DCH FCP Cert (Med Onc Paed) SA
K Donald, MBChB Cape Town DCH FCPaed SA MRCPCH UK
BS Eley, BScHons (Medicine) MBChB Cape Town FCP SA
J Lawrenson, MBBCh Witwatersrand MMed Cape Town FCP SA
M McCulloch, MBBCh Witwatersrand DTM&H FRCPCH London DCH FCPaed SA
B Morrow, BSc (Physiotherapy) PhD Cape Town
S Mathews, BScSoSce BScSoScHons (Social Work) Cape Town PhD Witwatersrand
J Wilmshurst, MBBS MRCPCH UK FCPaed SA MD Cape Town
HJ Zar, MBBCh Witwatersrand FAAP BC Paed BC Paed Pulm USA PhD Cape Town FCPaed SA
FRCP

Emeritus Professors:
F Bonnici, MBChB MMed Cape Town FCP SA ADE
G Swingler, MBChB PhD Cape Town DCH SA FCP SA

Honorary Professors:
S Andronikou, MBBCh Witwatersrand FCRad Diag FRCR London PhD Cape Town
A Custovic, MBChB MSc MD PhD London MRCP
JR Carapetis, BMedSc MBBS FRACP Paeds FRACP Inf Dis FAFPHM PhD FAHMS
P Moons, BNSP CCIT MMedSoSce PhD
N Silverman, MBBCh DSc Witwatersrand MD UCSF
J Warner, BSc PhD London
J Warner, MBChB DCH MRCP UK MD FRCP UK FRCPCH UK DMedSci AAAAI

Honorary Associate Professor:
P Harden, FRCP London MRCP UK MBChB BSc Dip (Geriatric Medicine)

Associate Professors:
M Coetzee, BScSoScHons UFS Dip (Paediatric Nursing) PhD Cape Town
R De Decker, MBChB MSc Cape Town DCH London FCPaed Cert (Medical Genetics Paed) SA
C Gray, MBChB Cape Town MRCPCH London MSc Surrey Dip Allergy Southampton Dip
(Paediatric Nutrition)
W Hanekom, MBChB Stell DCH FCP (Paediatrics) SA
MC Harrison, MBChB Cape Town MRCP FRCPCH UK
M Hendricks, MBChB Cape Town Dip PEC DCH FCPaed CMO (Paediatrics) SA
A Horn, MBChB Cape Town FCPaed DCH CertNeon SA MRCP (Paediatrics) UK PhD Cape Town
C Hlela, MBChB FC Derm MSc GHS MMEd PhD Oxon
ME Levin, MBChB MMed Cape Town FCPaed Dip (Allergology) SA PhD
R Muloiwa, MBChB UKZN DCH FCPaed SA MSc LSHTM
C Scott, MBChB Cape Town FCPaed SA
A Westwood, MBChB MD MMed Cape Town FCP SA MRCP UK
L Zühlke, MBChB Cape Town DCH SA FCPaed SA Card Cert SA MPH Cape Town FESC UK
Associate Professors – Part-Time:
D Gray, MBChB PhD Cape Town FCPaed SA
A Vanker, MBChB MMed Stell FCPaed Cert (Pulm Paed) SA

Honorary Associate Professor:
P Hardien, FRCP London MRCP UK MBChB BSc Dip (Geriatric Medicine)

Emeritus Associate Professors:
VC Harrison, MBChB Cape Town MRCP FRCPCH UK
P Hartley, MBChB Cape Town FCPaed SA SAMDC
CD Karabus, MBChB MMed Cape Town DCH RCP&S FRCP Edinburgh FRCP London
AF Malan, MBChB MMed MD Cape Town Dip (Obstetrics & Gynaecology) SA
M Mann, MBChB PhD MMed Cape Town
J Wiggelinkhuizen, MBChB MMed FCP SA
DL Woods, MBChB MD Cape Town FRCP DCH RCP&S UK
EG Weinberg, MBChB FCP SA

Senior Lecturers Full-time:
J Ahrens, MBChB Cape Town DA DCH FCPaed CIC (Paediatrics) SA
J Alt, MBChB Cape Town DCH SA ATLS APLS FCP
W Breitenbach, MBChB Stell FCP SA
HA Buys, MBChB Zimbabwe LRCP LRCS Edinburgh MRCP UK FCP SA
A Brink, MBChB Pret MMed Cape Town FCNP DCH SA
M Carrihill, MBChB MPhil Cape Town FCPaed Cert (Endo & Metab) SA
G Comitis, MBChB Cape Town DCH Dip (Anaesthesia) FCPaed SA
L Cooke, MBChB PCPaed SA
A Coetzee, MBChB FCPaed Cert (Paediatric Neph) SA
R Dunkley, MBChB Cape Town FCPaed SA
E Goddard, MBChB BScHons (Medicine) MMed PhD Cape Town SA
MG Hendricks, MBChB Cape Town DCH Dip (Primary Emergency Care) FCPaed Cert (Med Onc Paed) SA
Y Joolay, MBChB Stell FCPaed SA
T Kerbelker, MBChB ATLS ACLS BLS PALS Cape Town DCH FCPaed SA Dip (HIV Management) Griffiths Neuro Dip (Allergy) Cert (Paed Rheum) Australia
SM Kroon, MBChB Cape Town FCPaed SA DTM&H London MRCP UK
G Kahl, MBChB DCH FCPaed SA MMED UFS CMO (Paediatrics)
R de Lacey, MBChB MMed Cape Town SA
D le Roux, MBChB MPH Cape Town Dip (Obstetrics & Gynaecology) FCPaed SA
S Naidoo, MBChB Cape Town DCH SA FCPaed SA Dip (Allergology) SA
AP Ndondo, MBChB Medunsa FCPaed SA
P Nourse, MBChB MMed Cape Town FCP SA Cert (Paed Nephrol) SA
JC Nuttall, MBChB Cape Town Dip (Obstetrics & Gynaecology) DCH FCPaed SA DTM&H Witwatersrand
MT Richards, MBChB Cape Town Cert DCH FCPaed SA NR Rhoda FCPaed SA Cert (Neonatology) (Dev Paed) SA
B Rossouw, MBChB Dip (Tropical Medicine Paed) MSc (Sports Medicine) Pret Cert (Critical Care) SA
S Salie, MBChB Cape Town DCH London PCPaed Cert (Critical Care) SA
G Schermbrucker, MBChB Cape Town DCH FCP SA
A Spitaels, MBChB Cape Town DCH FCPaed SA
L Tooke, MBChB MMed Cape Town FCPaed Dip (Obstetrics & Gynaecology) (Primary Emergency Care) SA
M Wege, MBChB FCPaed Paed Crit Care
P Wicomb, MBChB Cape Town DCH FCPaed SA
M Zampoli, MBChB Witwatersrand DCH FCP (Paediatrics) SA

Senior Lecturers Part-time:
S Ackermann, MBChB Pret FCpaed Cert (Paed Neurol) SA
G Riordan, MBChB Cape Town DCH MMed FCP SA

Honorary Senior Lecturers:
J Buckley, MBChB FCpaed BSc Cert (Paed Neph) SA
C Hugo-Hamman, MBChB Cape Town MA USA DCH FCP SA
N McKerrow, BA Unisa MBChB MMed Cape Town FCpaed SA DCH SA
V Ramanjam, MBChB Cape Town DCH FCP SA
PJ Sinclair, MBChB Cape Town DCH FCP SA
K van Niekerk, MBChB Stell
AJ Wright, MBChB Witwatersrand MRCP UK MRCPCH UK MSc UCL BPharmHons Rhodesia

Lecturers Full-time:
A Barker, MBChB Cape Town
H de Quintal, MBChB DCH FCpaed
A Ramcharan, MBMBCH Witwatersrand DCH SA FCpaed SA Cert (Endocrinology & Metabolism SA
A Radloff-Kingston, MBChB Cape Town
J Shea, MPHE
B van Stormbroek, BSc MBChB MMed Cape Town DCH SA PCpaed SA
M Wiggelinkhuizen, MBChB Cape Town

Lecturers Part-time:
A Klopper, MBChB DCH Dip (Anaesthesia) MRCP MSc
M Ledger, MBChB BSc BSChons (Medicine) Cape Town DCH FCpaed SA
WR Mathiassen, MBChB Cape Town MRCP UK
MA Meiring, MBChB Pret FCpaed SA MMed Witwatersrand
K Reichmuth, MBChB MPH Cape Town

Honorary Lecturers:
S Karabus, MBChB Cape Town DCH Dip (Allergology) FCpaed SA MRCPCH UK
D Reddy, MBChB DCH FCpaed SA MMed Cert (Paed Neph) SA
J Buckley, MBChB FCpaed BSc Cert (Paed Neph) SA

Honorary Research Associate:
LMH Vivian, PhD MSc London BSc UK

Allergology (Paediatric)

Associate Professor and Head:
ME Levin, MBChB MMed PhD Cape Town FCpaed Dip (Allergology) SA

Honorary Professors:
J Warner, BSc PhD London
AL Watkins, BSChons (Nutrition and Dietetics) MSc MA Cantab PhD UK

Honorary Senior Lecturers:
S Karabus, MBChB Cape Town DCH Dip (Allergology) FCpaed SA MRCPCH UK

Associate Professor Part-time:
C Gray, MBChB Cape Town MRCPCH London MSc Surrey Dip (Allergology) (Paed Nutr) Southampton


**Associated Paediatric Disciplines**

**Physiotherapy Department:**
_S13 Ground Floor OPD, Red Cross Children’s Hospital, Rondebosch_  
(Sameer.rahim@uct.ac.za or Sameer.rahim@westerncape.gov.za) 021 658 5033/5130

*Head:*
S Rahim, BSc (Physiotherapy) _Cape Town_

**Occupational Therapy Department:**
_S10 Ground Floor OPD, Red Cross Children’s Hospital, Rondebosch_  
(Mereille.pursad@westerncape.gov.za) 021 658 5038/5609

*Head:*
M Pursad, BSc (Occupational Therapy) _Stell_

**Speech and Language Therapy Department:**
_S24 1st Floor OPD, Red Cross Children’s Hospital, Rondebosch_  
(Lezanne.leroux@westerncape.gov.za) 021 658 5264

*Head:*
L le Roux, BSc (Speech and Audiology) _Stell_

**Nutrition and Dietetics Department:**
_S14 Ground Floor OPD, Red Cross Children’s Hospital, Rondebosch_  
(Shihaam.cader@westerncape.gov.za) 021 658 5471

*Head:*
S Cader, BScHons (Medicine) _Cape Town_

**Audiology Department:**
_S24 1st Floor OPD, Red Cross Children’s Hospital, Rondebosch_  
(colleen.cox@westerncape.gov.za) 021 658 5406

*Head:*
C Cox, BSc (Audiology) _Cape Town_

**Social Work Department:**
_B8 B Floor Main Hospital, Red Cross Children’s Hospital, Rondebosch_

*Head:*
C Brown, Dip (Social Work) _UWC_

**Child and Adolescent Psychiatry**
[See Department of Psychiatry and Mental Health.]

**Child Nurse Practice Development Initiative**

**Associate Professor:**
M Coetzee, BSoeScHons _UFS_ Dip (Paediatric Nursing) PhD _Cape Town_

**Clinical Educator:**
J Stuurman, BCur RN MCur (Nursing Education) PGDip (Child Critical Care Nursing) _Cape Town_
Lecturers Full-Time:
T Castle, BCur RN *UWC* RPaedN
I Hendry, BN RPaedN *Cape Town* Forensic Nurs *Bloemfontein*

Lecturers Part-time:
C Davis, BNurs (Child) Dip (PICU) *England*
L Rees, BSc (Nursing) *Cape Town* Dip (Community Healthcare) *CPUT* Dip (Paediatric Nursing) *RAU* MSc (Nursing) *Witwatersrand* Cert (PHC Clinical Skills) *Witwatersrand*

Research Staff:
C Bonaconsa, BNurs *Stell* RN
A Leonard, MSc (Nursing) *Cape Town* RN
N North, BAHons *London* RGN

Programme Facilitator:
J Vos, Dip (Nursing) RN

Cardiology (Paediatric)

Professor and Head:
J Lawrenson, MBBCh *Witwatersrand* MMed *Cape Town* FCP *SA*

Professor:
L Zuhlke, MBChB MPH *Cape Town* DCH SA FCPaed SA Card Cert SA FESC UK

Associate Professor Full-time
R de Decker, MSc MBChB *Cape Town* DCH *London* Cert (Med Genet Paed) FCPaed SA

Senior Lecturer Full-time:
G Comitis, MBChB *Cape Town* DCH Dip (Anaesthesia) FCPaed SA

Senior Lecturers Part-time:
H Pribut, MBChB *Cape Town* FCPaed SA
WR Mathiassen, MBChB *Cape Town* MRCP UK
M Wege, MBChB FCPaed Paed Crit Care

Honorary Senior Lecturer:
C Hugo-Hamman, MA *Oxon* MBChB *Cape Town* DCH *London* FCPaed SA

Child Health Unit

Acting Head and Lecturer:
J Shea, MPHE

Critical Care (Paediatric)

Head:
S Salie, MBChB *Cape Town* DCH *London* FCPaed Cert (Critical Care) SA

Professors Full-Time:
AC Argent, MBChB MMed *Witwatersrand* MD *Cape Town* DCH FCPaed Cert (Critical Care) SA
FRCPCH UK
M McCulloch, MBChB *Witwatersrand* DCH FCPaed SA
Senior Lecturers Full-time:
J Ahrens, MBChB Cape Town DCH FCPaed Cert (Critical Care) S4
B Rossouw, MBChB Dip (Trop Med Paed) MSc (Sports Medicine) Pret Cert (Critical Care) S4
M Wege

Dermatology (Paediatric)

Associate Professor and Head:
C Hlela, MBChB FCDerm MSc GHS MMed PhD Oxon

Developmental Paediatrics

Professor and Head:
K Donald, MBChB MPhil Cape Town DCH FCPaed Cert (Paed Neuro) S4 MRCPCH UK

Senior Lecturers Part-time:
S Ackermann, MBChB Pret FCPaed Cert (Paed Neurol) S4

Honorary Senior Lecturer:
V Ramanjam, MBChB Cape Town DCH FCPaed Cert (Dev Paed) S4

Lecturers Part-time:
A Klopper, MBChB DCH Dip (Anaesthetics) MRCGP MSc
W van der Meulen, MBChB
S Warner, MBChB Cape Town DCH S4

Endocrinology (Paediatric)

Head:
M Carrihill, MBChB MPhil Cape Town FCPaed Cert (Endocrinology & Metabolism) S4 (Paed Endo)

Senior Lecturers Full-time:
A Ramcharan, MBBCh Witwatersrand DCH S4 FCPaed S4 Cert (Endocrinology & Metabolism) S4 Paed
A Spitaels, MBChB Cape Town DCH FCPaed S4

Gastroenterology (Paediatric)

Head:
E Goddard, BScHons MBChB MSc (Medicine) MMed PhD Cape Town FCPaed Cert (Paed Gastro) S4

Senior Lecturer Full-time:
R de Lacey, MBChB Cape Town FCPaed Cert (Paed Gastro) S4

Lecturers Part-time:
M Ledger, MBChB BSc BScHons (Medicine) Cape Town DCH FCPaed S4
RA Brown, MBChB Cape Town MPhil Stell DCH FCS S4 FRCS Edinburgh
General Paediatrics

Associate Professors:
M Hendricks, MBChB Cape Town Dip (Primary Emergency Care) DCH FCPaed CMO (Paediatrics) SA
R Muloiwa, MBChB UKZN DCH FCPaed SA MSc LSHTM

Senior Lecturers Full-time:
HA Buys, MBChB Zimbabwe LRCP LRCS Edinburgh MRCP UK FCP SA
L Cooke, MBChB Cape Town FCPaed SA
R Dunkley, MBChB Cape Town FCPaed SA
T Kerbelker, MBChB ATLS ACLS BLS PALS Cape Town DCH FCPaed SA Dip (HIV Management) Griffiths Neuro Dip (Allergy) Cert (Paed Rheum) Australia
D le Roux, MBChB Dip (Obstetrics & Gynaecology) MPH Cape Town FCPaed SA
M Richards, MBChB DCH FCPaed Cert (Dev Paed) SA
S Naidoo, MBChB Cape Town DCH SA FCPaed SA Dip (Allergology) SA
G Schermbrucker, MBChB Cape Town DCH FCP SA

Lecturer Full-Time:
B van Stormbroek, BSc MBChB MMed Cape Town DCH SA PCPaed SA

Honorary Senior Lecturer:
K van Niekerk, MBChB Stell

Haematology/Oncology (Paediatric)

Professor and Head:
A Davidson, MBChB MPhil Cape Town DCH FCPaed Cert (Med Onc Paeds) SA

Senior Lecturers Full-time:
MG Hendricks, MBChB Cape Town DCH Dip (Primary Emergency Care) FCPaed Cert (Med Onc Paeds) SA
G Kahl, MBChB DCH FCPaed SA MMED UFS CMO (Paediatrics)

Lecturer Full-time:
H de Quintal, MBChB DCH FCPaed

Infectious Diseases (Paediatric)

Professor and Head:
BS Eley, BScHons (Medicine) MBChB Cape Town FCP SA

Senior Lecturer Full-time:
JC Nuttall, MBChB Cape Town Dip (Obstetrics & Gynaecology) DCH FCPaed SA DTM&H Witwatersrand

Neonatology

Associate Professor and Head:
MC Harrison, MBChB Cape Town MRCP FRCPCH UK

Emeritus Associate Professors:
VC Harrison, MBChB Cape Town MRCP FRCPCH UK
AF Malan, MBChB MMed MD Cape Town Dip (Obstetrics & Gynaecology) SA
DL Woods, MBChB MD Cape Town FRCP DCH RCP&S UK

**Associate Professor Full-time:**
A Horn, MBChB Cape Town FCPaed DCH Cert (Neonatology) SA MRCP (Paediatrics) UK PhD Cape Town

**Senior Lecturers Full-time:**
Y Joolay, MBChB Stell FCPaed SA
SM Kroon, MBChB Cape Town FCPaed SA DTM&H London MRCP UK
NR Rhoda, MBChB Cape Town FCPaed SA Cert (Neonatology) SA
L Tooke, MBChB Cape Town FCPaed MMed Dip (Obstetrics & Gynaecology) (Primary Emergency Care) SA
AM van Niekerk, MBBCh Witwatersrand DCH FCPPaed Cert (Paediatric Cardiology) SA

**Lecturers Full-time:**
MT Ismail, MBChB Cape Town DCH Dip (HIV Management) SA

**Lecturer Part-time:**
JCG Dyssell, MBChB Cape Town MMed Witwatersrand DCH FCPaed SA

**Nephrology (Paediatric)**

**Professor and Head:**
M McCulloch, MBBCh Witwatersrand DCH FCPaed SA

**Honorary Senior Lecturer**
J Buckley, MBChB FcPaed BSc Cer (Paed Neph) SA
P Sinclair, MBChB DCH FcPaed SA
AJ Wright, MBChB Witwatersrand MRCP UK MRCPCH UK MSc UCL BPharm Hons Rhodesia

**Honorary Lecturer**
D Reddy, MBChB DCH PePaed MMed Cert (Paed Neph) SA

**Senior Lecturer Full-time:**
P Nourse, MBChB MMed Cape Town FCP SA Cert (Paed Nephrol)
A Coetzee, MBChB FCPaed Cert (Paed Neph)

**Neurology (Paediatric)**

**Professor and Head:**
J Wilmshurst, MBBS London MRCP UK FCPaed SA MD Cape Town

**Senior Lecturer Full-time:**
AP Ndondo, MBChB Medunsa FCPaed Cert (Paed Neuro) SA

**Senior Lecturers Part-time:**
V Kander, MTech UFS
G Riordan, MBChB MMed Cape Town DCH CPaed SA
B Schlegel, MBChB Cape Town FCPaed SA
K Walker, MBChB Cape Town DCH SA
Pulmonology (Paediatric)

Professor and Head:
HJ Zar, MBChB Witwatersrand FAAP BCPaed USA BCPaed (Pulmonology) USA PhD Cape Town FCPaed SA FRCP

Associate Professors – Part-Time:
D Gray, MBChB PhD Cape Town FCPaed Cert (Pulm Paed) SA
A Vanker, MBChB MMed Stell FCPaed Cert (Pulm Paed) SA

Senior Lecturer Full-time:
M Zampoli, MBChB Cape Town DCH FCPPaed Cert (Pulm Paed) SA

Rheumatology (Paediatric)

Associate Professor and Head:
C Scott, MBChB Cape Town FCPaed SA

PED2001S SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal
Course entry requirements: All first year MBChB courses.
Objective: The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.
Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.
DP requirements: Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.
Assessment: Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.
PED4016W  NEONATOLOGY

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PED4016X, PED4026X, PED4036X, PED4046X, PED4056X

10 NQF credits at HEQSF level 8; 44 Lectures comprising of 30 obstetrics lectures, 12 neonatal lectures and two languages (IsiXhosa) lectures. Two Obstetric skills training sessions. One neonatal resuscitation skills training session. A minimum of 10 tutorials (five Obstetric and five Neonatal). Placement at secondary level hospitals (Mowbray Maternity or New Somerset) x 2-weeks Placement at Midwife Obstetric Unit (Mitchell’s Plain or Vanguard) x 1-week. Midwife Obstetric Unit day visits (Retreat or Hanover Park) x 2-days.

Convener: Dr L Linley and Dr MT Groenewald

Course entry requirements: Successful completion of all courses within the preceding academic year.

Co-requisites: The obstetrics and neonatal components of the course must be passed individually.

Objective: The purpose of the course is to acquaint the student with regionalised perinatal care; and to develop the knowledge, skills, and attitudes to provide safe, effective, and compassionate maternal/newborn care in primary and secondary perinatal care settings.

Course outline: Obstetrics (OBS4003W) and Neonatology (PED4016W) are taught jointly in a six-week perinatal medicine block rotation. The joint rotation builds on the introduction provided in third year MBChB, and forms part of a progressive spiral curriculum that runs through to the final year. During this time, students acquire the knowledge, skills and professional conduct required for medical practice. Teaching takes place within the Maternal and Neonatal Service: Metro West, which exposes students to primary (or community-based) and secondary (hospital-based) levels of care. Practical experience for both Obstetrics and Neonatology is recorded in a logbook, and includes at least eight deliveries under supervision, as well as assessment and care of the newborn as detailed in four neonatal case reports. Further details are specified in the logbook. Students are encouraged to develop professional behaviour, as well as to develop empathic and caring attitudes through compassion tutorials and a Health and Human Rights workshop. The rotation is supplemented by a series of lectures, tutorials and skills training sessions that cover topics within the discipline, as well as contributions from other disciplines, in order to provide an integrated, multidisciplinary approach to common perinatal problems. The knowledge and skills acquired during the fourth year of the MBChB programme form the foundation of Obstetric and Neonatal medicine.

Lecture times: Lectures are scheduled for the duration of week 1 (Monday to Friday) then on Monday (whole day) in weeks 3, 5 and 6 of the block.

DP requirements: Students must (a) attend the neonatal resuscitation training in the Introductory Week; (b) attend at least five of the whole block neonatal seminars; (c) examine the newborns of the mothers delivered by their clinical partners on at least five night calls during the block; (d) have one of their four neonatal case reports completed before the start of the assessment week; (e) attend at least five of their eight neonatal clinical tutorials and the Friday Neonatology Academic Week tutorial.

Assessment: The Obstetrics (OBS4003W) and Neonatology (PED4016W) courses are assessed concurrently at the end of the 8-week block. The PED4016W assessment comprises an MCQ [40% of the total mark for PED4016W], OSCE [20% of the total mark for PED4016W], case reports [10% of the total mark for PED4016W], and in-course assessment [30% of the total mark for PED4016W]. For PED4016W, each student must achieve an overall mark of 50% or more. Any student who obtains 47% or less may need to repeat the 2-week neonatology course and its assessment in full. Should a student obtain a mark of 48% to 49% inclusive, a recommendation will be made to the Faculty Examinations Committee that the student be offered a supplementary assessment* as detailed in the course handbook. Should the student fail (achieve <50%) or not attend the supplementary assessment, the 2-week neonatology course will need to be repeated in the next academic year. *All supplementary assessments will take place in the supplementary time period scheduled at the start of the next calendar year.
PED4017W  NEONATOLOGY FOR EXTERNAL CREDIT
7 NQF credits at HEQSF level 8
Convener: Dr L Linley
Objective: To impart skills to equip the student for newborn resuscitation, newborn examination and assessment, and provision of routine care for the well and sick newborn.

Course outline:
Neonatology (PED4017W) and Obstetrics (OBS4006W) are taught jointly in an eight-week perinatal medicine block. This forms part of a progressive spiral curriculum that runs through to the final year. Students acquire the skills and professional conduct required for neonatal medical practice. Teaching takes place within the Maternal and Neonatal Service: Metro West, which exposes students to community-based and hospital-based levels of care. Practical experience for Neonatology is recorded on a logsheet. It includes observation and performance under supervision of newborn examination and newborn procedures as stipulated on the log sheet, as well as assessment and care of the newborn as detailed in four neonatal case reports. Students are encouraged to develop professional behaviour, as well as to develop and become skilled in empathic and caring attitudes through perinatal bereavement seminars and tutorials. The rotation is supplemented by a series of lectures, tutorials and skills training sessions that cover topics within the discipline, as well as contributions from other disciplines, in order to provide an integrated, multidisciplinary approach to common neonatal problems. The neonatal knowledge and skills acquired during this course form the foundation of Neonatal Medicine.

DP requirements: Students must (a) attend the neonatal resuscitation training in the Introductory Week; (b) attend the minimum stipulated number of neonatal lectures/seminars; (c) examine at least five newborns of the mothers delivered by their clinical partners during the block; (d) have one of their four neonatal case reports completed and submitted (electronically) at the beginning of the assessment week; (e) attend the stipulated minimum number of neonatal clinical tutorials AND the Friday Neonatology Academic Week tutorial; and (f) submit the hard copy of the completed neonatal logsheet by 15h00 on the Wednesday of block week 8.

Assessment: The Obstetrics (OBS4006W) and Neonatology (PED4017W) courses are assessed concurrently at the end of the 8-week block. The PED4017W assessment comprises an OSCE [60% of the total mark], case reports [10% of the total mark], and in-course assessment [30% of the total mark]. For PED4017W, each student must achieve an overall mark of 50% or more. Any student who obtains 47% or less will need to repeat the 2-week neonatology course and repeat end of course assessment in full. Should a student obtain a mark of 48% to 49% inclusive, a recommendation will be made to the Faculty Examinations Committee that the student be offered a supplementary assessment* as detailed in the course handbook. Should the student fail (achieve <50%) or not attend the supplementary examination, the 2-week neonatology course will need to be repeated in the next academic year. *All supplementary assessments will take place in the supplementary time period scheduled at the start of the next calendar year.

PED4049W  INTRODUCTION TO CHILD HEALTH
10 NQF credits at HEQSF level 8
Convener: Dr P Wicomb and Dr K Reichmuth
Course outline:
Child Health seeks to promote the health of children, the prevention of illness, and to minimise the consequences of illness when it does occur. The focus for this block is on the health issues of children presenting at primary care level. This incorporates services for well children and an approach to the management of child health problems commonly seen at a primary care level. Students are encouraged to apply the COPC model of individual, family, community, and population factors to critically examine child health issues.

DP requirements: Students must fulfil all of the following: (a) Submit the completed logbook of stipulated activities; (b) submit a portfolio of two narrative cases of 1500 words each, via Turnitin, by the deadline as stipulated in the course handbook.
Assessment: The summative assessment comprises the following: (a) an end-of-block multiple choice/extended matching item (MCQ/EMI)-format examination (60% of the overall course mark); (b) assessment of a written portfolio of two narrative cases of 1500 words each (25% of the overall course mark); and (c) assessment of an oral presentation and contribution to the discussion at the cross-cutting seminars [15% of the overall course mark]. The overall course pass mark is 50%. In addition, a subminimum of 50% must be achieved for the end-of-block MCQ/EMI examination. Supplementary examinations: Students who attain 48-49% as the overall course mark or in the end-of-block MCQ/EMI examination will do a repeat MCQ/EMI examination. Students who attain <.47%: (I) as the overall course mark fail, and have to repeat the course in full, with a full summative assessment; (2) in the end-of-block MCQ/EMI examination repeat the course and repeat only the MCQ/EMI examination. Students who do not meet the Due Performance requirements fail, and have to repeat the course in full, with a full summative assessment.

PED5001W  CARING FOR CHILDREN
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PED5101X, PED5201X, PED5301X, PED5401X, PED5501X. 40 NQF credits at HEQSF level 8; 36 lectures/seminars; 11 bedside tutorials; one site visit (SHAWCO).

Convener: Dr HA Buys, Associate Professor S Cox and Dr P Wicomb

Course entry requirements: Successful completion of all courses within the preceding academic year.

Objective: Build knowledge, skills and attributes needed for the holistic medical care of children and teenagers.

Course outline:
This course is an eight-week block divided into two four-week rotations. One rotation comprises two weeks of paediatric surgery and two weeks of ambulatory paediatrics both done at Red Cross Children’s Hospital. The other rotation focuses on inpatient care and is a ward placement where the student will spend time in Red Cross Children’s, New Somerset or Groote Schuur Hospital paediatric wards. In addition, whole group seminars in aspects of the care of children run weekly. The curriculum is composed of common presentations (which students address in terms of history-taking, examination, assessment and management plans, as well as during bedside tutorials, and in assembling their portfolio) and core topics – designated as ‘core’ and ‘core plus’ topics. Students who pass this course will have knowledge of common core childhood medical and surgical diseases and conditions; skill at taking a history from children and their caregivers; examining neonates, children and adolescents; the ability to define an appropriate problem list and formulate an appropriate management plan; awareness of basic procedures; professional behaviour and attitudes appropriate to handling children and their caregivers; and awareness of the rights of children and the doctor’s role as an advocate for child health.

Lecture times: Monday lecture/seminar program, with other seminars and bedside tutorials as timetabled according to the rotations.

DP requirements: To qualify for the end-of-block examination, students must fulfil ALL of the following: (a) Achieve a minimum of 80% attendance* in each of the three rotations (ward, ambulatory, and paediatric surgery) and scheduled activities/alocations, monitored by signed attendance; (b) complete a written portfolio of the required minimum number of original case write-ups of patients seen in the paediatric medicine or surgery ward and outpatient clinic that is allocated during time in PED5001W with associated tasks (Primary Health Care and Q&A for each case) and the required clinical methods templates; this portfolio MUST be brought to the end-of-block clinical examination; (c) submit the hard copy of the completed, signed, and dated PED5001W logbook by 15h00 on the Wednesday afternoon of block week 8; and (d) complete the online lessons and quizzes for paediatric surgery by 14h00 on Tuesday of block week 8. *Any absence is only allowed with permission subject to the leave of absence rules as stated in the course handbook. If a student is absent with permission for more than five working days in the four-week ward placement or for more than two working days during either of the two-week ambulatory or paediatric surgery
placements, the time missed will need to be made up to attain the minimum attendance criterion; DP concession rules apply.

**Assessment:** The end-of-block summative assessment comprises a clinical and portfolio assessment [50% of the overall mark] and an online MCQ and Extended Matching Items (EMI) assessment [50% of the overall mark]. Coursework from PPH4056W Health in Context will also be assessed. The overall course pass mark is 50% (paediatric medicine and surgery). In addition, in order to pass the course, students are required to achieve 50% or more in each of the following components: (a) The clinical examination (average of the two clinical cases); (b) the portfolio examination; (c) the paediatric medicine/neonatology section of the online assessment; and (d) the paediatric surgery section of the online assessment. The following will be recommended to the Faculty Examinations Committee, that students who: (a) fail any component of the end-of-block summative assessment with 48–49% will be required to undertake a supplementary examination* and (b) fail any component of the end-of-block summative assessment with a mark of 47% or less may be required to complete additional time* and undergo a supplementary examination*. Students who fail the course overall with a mark of 48–49% will be required to repeat the four week paediatric medicine rotation, collect a stipulated minimum number of new portfolio cases, and will be required to undergo a paediatric medicine clinical, portfolio, and online examination in the following academic year and will not progress to final year until this is successfully done. Students who fail the course overall with a mark of 47% or less will be required to repeat the course and its end-of-block summative assessment in full in the next academic year. It will be recommended to the Supplementary Faculty Examinations Committee that students who achieve less than 50% in any component of the supplementary examination may be required to repeat the course and its end-of-block summative assessment in full in the next academic year. *All additional time and supplementary examinations will take place in the supplementary time period scheduled at the start of the next calendar year.

**PED5004W**

**GENERAL CARE OF THE CHILD FOR EXTERNAL CREDIT**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PED5104X, PED5204X, PED5304X, PED5404X, PED5504X

40 NQF credits at HEQSF level 8

**Convener:** Dr K Reichmuth and Dr P Wicomb

**Course outline:**

This course is an eight-week block divided into the following: Neonatology, ambulatory paediatric medicine, and a paediatric medicine ward rotation. The two-week neonatology rotation will take place at either Mowbray Maternity Hospital or Groote Schuur Hospital. Students will sit an end-of-rotation neonatology examination. The two-week paediatric ambulatory rotation will take place at Red Cross Children's Hospital. It will comprise a series of tutorials on clinical methods and examination techniques and attendance at various paediatric medical outpatient clinics. The four-week paediatric ward rotation will take place at New Somerset, Victoria, or Red Cross Children's Hospital. Students will undergo a full day of compulsory Paediatric Life Support training. Seminars will be held on common paediatric topics, with a focus on guideline-based management. The curriculum is composed of common presentations (which students address in terms of history-taking, examination, assessment, and management plans, as well as during bedside tutorials and in assembling their portfolio and completing their Due Performance logbook) and core topics. Students who pass this course will be able to recognize and provide appropriate treatment / management of level 1 conditions presenting in a neonate, infant, child, and adolescent, and will be able to recognize, provide emergency treatment/ management of, and ensure appropriate and safe referral of neonates, infants, children, and adolescents presenting with level ≥2 conditions. In addition, students will have developed professional behaviour and attitudes appropriate to handling children and their caregivers, and awareness of the rights of children and the doctor's role as an advocate for child health.
DP requirements: To qualify for the end-of-block assessment, students must fulfill all of the following: (1) attend the paediatric procedure and resuscitation training; (2) attend the neonatal procedure and resuscitation training; (3) submit their Due Performance (DP) requirement logbook (completed, signed, and dated appropriately) to the course administrator by the stipulated deadline; complete a portfolio of the minimum required number of cases; and achieve a minimum of 80% attendance* in each rotation (monitored by signed attendance). *Any student missing ward attendance without a valid and approved reason will not be allowed to do the end-of-block examination. In the event of a student being absent from the ward for whatever reason, permission will need to be granted by the convener. If the period of absence is more than five working days over the four-week paediatric rotation or more than two working days during the two-week neonatal rotation, the time will need to be made up. If for whatever reason the student cannot make up the time or is absent for more than two weeks of the paediatric rotation or more than one week of the neonatal rotation, the rotation has to be repeated (Faculty of Health Sciences leave of absence rules apply).

Assessment: The paediatric summative assessment comprises the following: (1) General paediatric in-course assessment, allocated using a pro forma in-course tool that assesses history-taking, clinical and examination skills; management, investigation, and procedural skills; paediatric knowledge; and professional conduct in the ward [30% of the overall course mark]; (2) General paediatric end-of-block clinical assessment [20% of the overall course mark]; and (3) General paediatric end-of-block oral assessment [30% of the overall course mark]. The neonatal summative assessment comprises the following: (1) neonatology in-course assessment, allocated using a pro forma in-course tool [10% of the overall course mark] and (2) neonatology medicine clinical case assessment [10% of the overall course mark] While the overall course pass mark is 50%, a subminimum of 50% must be achieved for each of the following: (1) The paediatric in-course assessment; (2) the paediatric end-of-block clinical assessment; (3) the paediatric end-of-block oral assessment; (4) the neonatal in-course assessment; and (5) the neonatal end-of-rotation clinical assessment. In addition, students must obtain an exempt pass in the exit examination on procedural competence (MDN6004W). Students who attain 48–49%: (1) as the overall course mark or in the paediatric in-course assessment will be required to do 2 weeks of supplementary time, collect a stipulated number of new portfolio cases and do a repeat clinical and oral assessment; (2) in the end-of-block paediatric clinical assessment will be required to do a supplementary clinical assessment; (3) in the end-of-block oral assessment will be required to do a supplementary oral assessment using existing portfolio cases; (4) in the end-of-rotation neonatal clinical case assessment or neonatal in-course assessment will be required to do a supplementary neonatal case examination. Students who attain ≤47%: (1) as the overall course mark or in the paediatric in-course assessment fail and have to repeat the course; (2) in the end-of-block paediatric clinical assessment will be required to do 2 weeks of supplementary time and a repeat clinical assessment; (3) in the end-of-block paediatric oral assessment will be required to do 2 weeks of supplementary time, collect a stipulated number of new portfolio cases, and do a repeat portfolio assessment on new or existing cases; (4) in the end-of-block neonatal clinical case assessment or neonatal in-course assessment will be required to do 1 week of supplementary time in neonatology and a repeat neonatal case assessment. The timing of all supplementary examinations will be determined by the Faculty of Health Sciences: Undergraduate Office.

PED6000W PAEDIATRICS AND CHILD HEALTH
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PED6100X, PED6200X, PED6300X, PED6400X, PED6500X 41 NQF credits at HEQSF level 8
Convener: Dr S Salie, Dr L Tooke and Dr P Wicomb
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
This six–week course has two rotations – paediatric medicine and neonatal medicine – which, together with the two-week short elective course (PPH6005W), constitute an eight-week modular
block. In the paediatrics rotation students spend four weeks at either George Provincial, Red Cross Children’s, Victoria, Groote Schuur or New Somerset Hospitals. The two-week rotation in neonatology is at either of Groote Schuur, New Somerset, Mowbray Maternity or George Hospitals. During final year, students are integral members of the clinical team. They participate fully in the academic and clinical activities of the firm including after-hours cover. Learning outcomes include demonstration of core knowledge of common paediatric and neonatal diseases and conditions; history-taking skills; emergency management and resuscitation; defining problem lists; formulating appropriate management plans; performing basic procedures; professional behaviour and attitude; and advocacy of the rights of children. The core curriculum focuses on common paediatric and neonatal conditions. During the paediatric and neonatal attachments students attend the respective procedure and resuscitation training and are exposed to opportunities to acquire a prescribed list of necessary procedural skills.

**DP requirements:** To qualify for the Paediatric end-of-block examination, students must fulfil all of the following: (a) Achieve at least 50% for the paediatric in-course assessment; (b) successfully complete the procedure and resuscitation [Paediatric Life Support] training; (c) complete a written portfolio of the required minimum number of original case write-ups of patients seen during the time in PED6000W with associated tasks (Primary Health Care and Q&A for each case); this portfolio must be brought to the end-of-block clinical examination; (d) submit the hard copy of your completed, signed, and dated PED6000W logbook by 15h00 on the Wednesday afternoon of week 4 of the paediatric rotation; and (e) achieve a minimum of 80% attendance* in each rotation; this is monitored by signed attendance. To qualify for the Neonatology end-of-rotation examination, students must fulfil all of the following: (a) Achieve at least 50% for the neonatal in-course assessment; (b) successfully complete the neonatal procedure and resuscitation training; (c) submit the hard copy of the completed, signed, and dated PED6000W logbook by 15h00 on the Wednesday afternoon of week 2 of the neonatal rotation, and (d) achieve a minimum of 80% attendance* in each rotation; this is monitored by signed attendance. *Any absence is only allowed with permission subject to the leave of absence rules as stated in the course handbook. If a student is absent with permission for more than five working days in the four-week ward placement or for more than two working days during either of the two-week ambulatory or paediatric surgery placements, the time missed will need to be made up to attain the minimum attendance criterion; DP concession rules apply.

**Assessment:** Formative assessment covering all aspects of the student’s performance is given during the block. The end-of-block summative assessment is made up as follows: (a) An in-course assessment in paediatrics [20% of the overall mark]; (b) an end-of-block paediatric short-cases clinical examination [30% of the overall mark]; (c) an end-of-block oral portfolio exam [15% of the overall mark]; (d) a neonatal in-course assessment [10% of the overall mark]; (e) a neonatal clinical case examination [10% of the overall mark]; and (f) an end-of-block, computer-based MCQ and EMI [15% of the overall mark]. While the overall pass mark is 50%, a subminimum of 50% must be met for each of the following components: (a) The paediatric in-course assessment; (b) the end-of-block paediatric short-cases clinical examination [average of the two cases]; (c) the neonatal in-course assessment; and (d) the neonatal clinical examination. In addition students must obtain an exempt pass in the exit examination on procedural competence (MDN6004W). The following will be recommended to the Faculty Examinations Committee, that students who: (a) fail any component of the end-of-block summative assessment with 48–49% may be required to undertake a supplementary examination*; (b) fail any component with a mark of 47% or less may be required to complete additional time* and undergo a supplementary examination*. Students who fail the course overall with a mark of 48–49% may be required to complete additional time* and undergo a full supplementary examination*. Students who fail the course overall with a mark of 49% or less may be required to repeat the full course in the following academic year. Students who do not meet the Due Performance (DP) requirements fail the course and may be required to repeat the course and its end-of-block summative assessment in full in the next academic year. Students who achieve 49% or less in any component of the supplementary exam may be required to repeat the course and its end-of-block summative assessment in full. *All additional time and supplementary examinations will take place as soon as these can be scheduled.
PATHOLOGY

Professor and Head (UCT/NHLS joint staff):
RS Ramesar, BScHons MSc UKZN PhD MBA Cape Town

Anatomical Pathology
Level 4, Falmouth Building North/D7, Groote Schuur Hospital/1st Floor ICH Building, Red Cross Children’s Hospital

Associate Professors Full-time:
R Naidoo, BScHons UDW MMedSc PhD UKZN
K Pillay, MBChB UKZN MMed Cape Town FCPath (Anatomy) SA FRCPath London

Emeritus Professor:
D Govender, MBChB MMed PhD UKZN FCPath (Anatomy) SA FCPath ECSA FRCPath London IF CAP FAMM

Emeritus Associate Professor:
HC Wainwright, MBChB Cape Town FCPath (Anatomy) SA

Senior Lecturers Full-time:
MS Duffield, MBChB Rhodes LRCP&S Edinburgh & Glasgow MMed Cape Town MRCPath
ML Locketz, MBChB MMed Cape Town FCPath (Anatomy) SA
H-T Wu, MBChB Witwatersrand MMed Cape Town FCPath (Anatomy) SA FRCPath London

Lecturers Full-time:
D Chetty, MBChB Witwatersrand MMed Cape Town FCPath (Anatomy) SA
L Govender, MBChB Pret
B Price, MBChB Witwatersrand MMed Cape Town FCPath (Anatomy) SA PhD UKZN
A Ramburan, BScHons MMedSc SA PhD Stell
R Roberts, MBChB MMed Cape Town FCPath (Anatomy) SA
S Singh, MBChB MMed UKZN FCPath (Anatomy) SA

Assistant Lecturers / Registrars:
AP Aldera, MBChB Cape Town Dip (RCPath) London
NM da Costa, MBChB UFS
JL de Stadler, MBChB Cape Town
M du Toit, MBChB Pretoria
N Gericke, MBChB UFS
C Jackson, MBChB Cape Town
A Maoto-Mokote, MBChB Botswana
WD Rocher, MBChB Pretoria
W-J Tsai, MBChB Witwatersrand
P Pamacheche, MBChB Zimbabwe
S Tu, MBChB Cape Town
RJ Wessels, MBChB Stell

Chief Scientific Officer/Research Laboratory Manager:
R Kriel, NDip (Medical Technology) CPUT Dip (Prof Photography) PGDip (Business Management) UKZN
Laboratory Managers (NHLS):
S Davids (Cytopathology-Groote Schuur Hospital), NDip (Medical Technology) CPUT
E Dollie (Histopathology-Red Cross Hospital), NDip (Medical Technology) BTech (Biomedical Technology) CPUT

Chemical Pathology
Level 6, Entrance 4, Falmouth Building

Head:
TBC

Associate Professor:
GF Van der Watt, MBChB Pret MMed Cape Town FCPath SA

Senior Lecturers:
DM Blackhurst, PhD Cape Town
H Vreede (Senior Specialist), MBChB MMed Cape Town

Lecturers Full-time:
J Pillay, BPharm MSc Cape Town
C Hudson, MBChB FC Path Chem SA

Honorary Professors and Lecturers:
PH Fortgens, FCPath SA Chem Path PhD UKZN
TS Pillay, MBChB UKZN PhD Cambridge MRCPth UK
F Omar (Specialist), MBChB Stell MMed Cape Town FCPath SA
JC Stanfliet, MBChB Cape Town FCPath Chem SA
DB Sacks, MBChB NIH Bethesda MD USA

Forensic Medicine
Level 1, Entrance 3, Falmouth Building

Professor and Head:
LJ Martin, MBBCh Witwatersrand MMed Cape Town Dip (Forensic Medicine) FCForPath SA

Senior Lecturers Full-time:
M Heyns, BScHons MSc PhD MBA Stell PGCHET QUB
GM Kirk, MBBCh Witwatersrand Dip (Forensic Medicine) FCForPath SA
Y van der Heyde, BSc MBChB MMed Cape Town Dip (Forensic Medicine) SA

Lecturers Full-time:
C De Vaal, MBChB Stell Dip (Forensic Medicine Pathology) MPhil SA
I Alli, MBBS Mysore Dip (Forensic Medicine) SA Cert (Medical Law) Unisa FCForPath SA
M Date-Chong, MBChB Cape Town Dip (Forensic Medicine) FCForPath SA
B Davies, BScHons Cape Town MSc George Washington
L Heathfield, BSc BScHons (Medicine) Cape Town MSc Strathclyde
IJ Molefe, MBChB Cape Town Dip (Forensic Medicine Pathology) FCForPath SA
L Peddle, MBChB Cape Town Dip (Forensic Medicine) SA Path
M du Plessis, MBChB Pret Cert (Medicine & Law) Unisa Dip (Forensic Medicine) SA FCForPath SA MMed Sefako Makgatho
Medical Technologists:
Y Davies, NDip (Medical Technology) CPUT
M Perrins, NHDip (Medical Technology) CPUT

Haematology
Chris Barnard Building

Associate Professor and Head:
J Opie, MBChB Cape Town MRCP UK FRCPA (Haematology) Aus

Associate Professor:
K Shires, PhD Cape Town

Lecturers, Specialists and Haematology Pathologists:
G Bellairs, MBChB
M Ntobongwana, MBChB FCPath (Haematology) SA
C Swart, MBChB FCPath (Clinical Pathology) SA MMed Cape Town
A de Koker, MBChB Witwatersrand FCPath SA CCFP Canada
J Bailly, MBChB UFS FCPath SA
G Davison, PhD Cape Town

Scientist (Senior Lecturer):
S Mowla, PhD Cape Town

Human Genetics
Room 3.14, Level 3, Wernher and Beit North, IDM

Professor and Head:
RS Ramesar, BScHons MSc UKZN PhD MBA Cape Town

Professor/Senior Specialist:
A Wonkam, MBChB Cameroon MD Dip (Medical Genetics) Switzerland PhD Cape Town

Professor:
C Dandara, BScHons PhD Zimbabwe

Emeritus Professors:
PH Beighton, MD London PhD Witwatersrand FRCP UK FRCPCH FRS SA
LJHL Greenberg, BSc Stell PhD Cape Town

Honorary Professors:
W James, BAHons UWC MSc PhD Madison Wisconsin
MJA Wood, MBChB Cape Town MA DPhil Oxon

Senior Specialist/Associate Professor:
ER Chimusa, BScHons MSc PhD Cape Town
K Fieggen, MBChB Cape Town FCPaeds Cert (Med Genet) SA
C Spencer, MBCHB Stell DCH FCMG MMed Cape Town

Senior Lecturers:
T Wessels, MSc PhD Witwatersrand
GM Kuzamunu, BScHons MSc Stell PhD Cape Town
Sessional Specialist and Honorary Senior Lecturer:
S Zieff, MBChB MMed Cape Town FCP SA

Laboratory Manager (Cytogenetics NHLS):
T Ruppelt, NDip BTech (Biomedical Technology) UPE MSc Cape Town

Immunology
Falmouth Building, and Wernher and Beit Building South, IDM

Wernher & Beit Chair, Professor and Head of Division:
CM Gray, BScHons Western England MSc PhD Witwatersrand

Professors:
F Brombacher, PhD Freiburg
M Jacobs, PhD Cape Town
M Hatherill, MBChB MMed MD Cape Town
T Scriba, PhD Cape Town

Honorary Professor:
GD Brown, PhD Cape Town

Associate Professors:
W Horsnell, PhD UK
R Guler, PhD Switzerland

Visiting Professor:
G Ferrari, MD Genoa

Senior Lecturer:
S Hadebe, PhD Aberdeen

Honorary Senior Lecturer:
J Dorfman, PhD Berkeley

Honorary Research Associate:
MJ Marakalala, PhD Cape Town
H Jaspan, BSc USA MD PhD Tulane FAAP PaedsID Washington

Research Scientists:
J Hoving PhD Cape Town
N-J Hsu, PhD Cape Town
NC Tsikiwa, PhD Cape Town
E Nemes, PhD Italy/France

NHLS Staff:
Z Vallie-Moosa, Medical Scientist
J Banks, Dip (Medical Technology)
L Johnson, Dip (Medical Technology)
K Jonas, Dip (Medical Technology)
S Maart (Lab Manager), Dip (Medical Technology)
B Pillay, Dip (Medical Technology)
N Semela, Dip (Medical Technology)
G Sheba, Dip (Medical Technology)
M Watkins, MSc (Medicine) PhD Cape Town
Chief Medical Technologist:
L Fick, Dip (Med Technology) CPUT

Manager FACS Facility:
R Dreyer

Falmouth Laboratory Manager:
B Allinde

Wernher Beit South Laboratory Manager:
Z Sunday, (ICGEB affiliated)

Medical Microbiology
Level 5, Entrance 2/3, Falmouth Building, Faculty of Health Sciences Campus

Professor and Head:
MP Nicol, MBBCh MMed Witwatersrand DTM&H FCPath (Microbiology) SA PhD Cape Town

Professor and Director (MRC/NHLS/UCT Molecular Mycobacteriology Research Unit):
V Mizrahi, BScHons PhD Cape Town AfTWAS MASSAf FRSSAfOMS

Associate Professors:
H Cox, BSc MPH PhD UM Australia
DF Warner, BCom BScHons PhD Witwatersrand

Senior Lecturers Full-time:
N Beylis, MBBCh Dip (HIV Management) Witwatersrand DTM&H FCPath (Microbiology) SA
C Centner, MBChB MMed MSc Cape Town
A Khumalo, MBChB FCPath (Microbiology)
E Prentice BA MBBCH Witwatersrand DTM&H FCPath (Microbiology) SA

Lecturers:
L Ah Tow Edries, BScHons UWC PhD Cape Town
M Kaba, MD MSc PhD AMU France
C Moodley, PhD Cape Town
L Paul, PhD Cape Town

Honorary Lecturers:
JSN Govender, MBBCh FCPath (Microbiology) MMedPath Witwatersrand
DA Lewis, FRCP UK PhD Dip (GUM) DTM&H
J Simpson, MMed Cape Town

Registrars:
G Booley, MBChB Cape Town
CF Opperman, MBChB BScHons Stell
H Tootla, MBChB Cape Town

Medical Virology
Werner and Beit Building South (IDM), Faculty of Health Sciences Campus

Professor and Head (UCT/NHLS joint staff):
C Williamson, BScHons PhD Cape Town
Professor and SARChI Chair in Vaccinology (UCT):
A-L Williamson, BScHons PhD Witwatersrand

Associate Professors:
W Burgers, PhD Cantab
DR Hardie, MBChB MMed Cape Town
JA Passmore, PhD Cape Town

Senior Lecturers/Clinical Virologists (NHLS/UCT joint staff):
M Hsiao, MBChB DTM&H Witwatersrand MMed Cape Town FCPath (Virology) SA
S Korsman, MBChB Pret MMed Stell FCPath (Virology) SA

Registrars:
M Naidoo, MCBhB UKZN
A Ibrahim, MBBCh Tripoli
GJK Marias, MBChB Pret MSc IMP London

Senior Lecturer/Scientist (UCT/NHLS joint staff):
H Smuts, PhD Cape Town
JA Passmore, PhD Cape Town

Lecturers:
M-R Abrahams, PhD Cape Town
C Anthony, PhD Cape Town

Honorary Professor:
D Katzenstein, PhD USA

Honorary Senior Lecturers:
E Andersen-Nissen, PhD USA
A Bere, PhD Cape Town
G Chege, PhD Cape Town
L Masson, PhD Cape Town

Senior Research Officers:
R Chapman, PhD Cape Town
C Riou, PhD Lyon

Research Officer:
N Douglass, PhD Cape Town

Bioinformaticians:
D Matten, BScHons UKZN

Senior Scientific Officers:
C Adams, MSc Cape Town
A Keyser, MSc Cape Town
R Thebus, NDip (Medical Technology) CPUT

Scientific Officers:
C Combrinck, MMedSc UFS
B Kullin, PhD Cape Town
N Ndabambi, MSc UWC
L Tyers, MSc Cape Town
P Ximba, MSc  UKZN
T York, MSc  UKZN

**Senior Technical Officers:**
S Galant, NDip (Clinical Pathology) (Microbiology)  CPUT
H Gamaldien, NDip (Medical Technology)  CPUT MSc Cape Town

**Chief Scientific Officer:**
MT van Diepen, MSc  NL

**Project Managers/Administrators:**
B Galvao, PhD Cape Town
C Mehou-Loko, MSc Switzerland
K Norman

**Paediatric Pathology**
*Red Cross War Memorial Children’s Hospital*

**Senior Lecturer Full-time and Acting Head:**
MHG Shuttleworth, BScHons MBChB MMed  Cape Town

**Senior Lecturers Full-time:**
K Pillay, MBChB FC Path (Anat Path)  SA FRC Path UK MMed Cape Town
G van der Watt, MBChB FCPath (Chem Path) DA SA

**Medical Technologists (Chemical Pathology):**
B Bergstedt, NDip (Clinical Pathology) (Chemical Pathology) BTech
R Brown, BSc NDip (Chemical Pathology)
P Joseph, NDip (Clinical Pathology)
I Kamaar, NDip (Clinical Pathology)
S Kear, NDip (Clinical Pathology)
P Mangala, NDip (Clinical Pathology)
R Manuel, NDip (Clinical Pathology)
C Seaton, NDip (Clinical Pathology) (Haematology) NHDip
L Ungerer, NDip (Chemical Pathology)
J van Helden, NDip (Chemical Pathology)
V West, NDip (Chemical Pathology)

**Medical Technologists (Haematology):**
Z Abrahams, NDip (Clinical Pathology) BTech  Cape Tech
K Benjamin, NDip (Haematology) BTech Cape Tech
A Bertscher, NDip (Blood Transfusion) (Haematology) Jhb Tech
C Booyesen, NDip (Clinical Pathology) (Haematology) Cape Tech
S Brink, NDip (Clinical Pathology) BTech Cape Tech
L de Wet, NDip (Clinical Pathology) CPUT
H Hendricks, NDip (Clinical Pathology) Pen Tech
M Pickard, NDip (Haematology) Cape Tech
M Prins, NDip (Clinical Pathology) BTech Cape Tech
G Tappan, NDip (Blood Transfusion) NDip (Haematology) Cape Tech
E van der Heyde, BSc NDip (Haematology) (Clinical Pathology) Cape Tech
T Zbodulja, NDip (Haematology) Cape Tech

**Medical Technologists (Histopathology):**
E Dollie, NDip (Histopath Techniques) BTech
**PTY2000S** INTEGRATED HEALTH SYSTEMS PART IB
35 NQF credits at HEQSF level 6; 154 hrs lectures, 56 hrs PBL tutorials, 126 hrs practicals.

Convener: Dr J Ramesar

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
The integrated courses HUB2017H, PTY2000S and PTY3009F extend across years 2 and 3 and provide a detailed understanding of normal structure and function of the human body and consequences of disease. Students learn core material in the basic sciences (gross anatomy, embryology, histology, cell biology, medical biochemistry, molecular biology and physiology) and infectious diseases (medical microbiology, virology and immunology); they study changes in normal structure and function due to disease (anatomical pathology, chemical pathology and haematology) and learn principles of pharmacology/therapeutics and early management. Emphasis is placed on psycho-social matters relating to each case, drawing in relevant aspects of family medicine, primary healthcare, public health, and mental well-being. Students also learn clinical skills, interpretation of data, professional values and ethics, and procedural skills related to the cases studied. They learn about the impact of illness and disease on the individual, family and society, and the role of the healthcare services in alleviating illness. Case-based, group learning is supported by lectures, practical sessions and stand-alone modules. Students are guided to develop key life skills required for an effective healthcare professional, including a multidisciplinary team approach. Cases have relevance to healthcare issues regionally and nationally.

DP requirements: Attendance of all problem-based learning sessions, tutorials, stand-alone units and practical sessions; completion of all set assignments and all assessment activities. Public health requires all online learning exercises on Vula to be completed.

Assessment: HUB2017H and PTY2000S are assessed together in a final examination at the end of second year. Students must achieve an overall pass in semesters 3 and 4 (year 2) in order to progress to year 3. Students are required to complete a series of in-course assessments during semesters 3 and 4 that contribute 55% of the total mark for the year by the end of semester 4. Completion of all assignments and an essay for Critical Health Humanities contributes 5% of the total mark for the year. A summative assessment is held at the end of the year that assesses work from semesters 3 and 4, and contributes 40% of the total mark for year 2. Students thus receive identical marks at year end for HUB2017H and PTY2000S. In order to be considered eligible for a supplementary examination, students are required to have achieved a total mark for year two of 45-49%, and to have passed at least one class test or the final examination. Students who are granted a supplementary examination will have their results calculated using the same weightings as the original total mark for the year, and the mark achieved in the supplementary exam will be substituted for the final examination mark.

**PTY3009F** INTEGRATED HEALTH SYSTEMS PART II
59 NQF credits at HEQSF level 7

Convener: Dr J Ramesar

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
The integrated courses HUB2017H, PTY2000S and PTY3009F extend across year 2 and 3 and provide a detailed understanding of normal structure and function of the human body and consequences of disease. Students learn core material in the basic sciences (gross anatomy, embryology, histology, cell biology, medical biochemistry, molecular biology and physiology) and infectious diseases (medical microbiology, virology and immunology); they study changes in normal structure and function due to disease (anatomical pathology, chemical pathology and haematology); and learn principles of pharmacology/therapeutics and early management. Emphasis is placed on psycho-social matters relating to each case, drawing in relevant aspects of family medicine, primary
healthcare, public health, and mental well-being. Students also learn clinical skills, interpretation of data, professional values and ethics, and procedural skills related to the cases studied. They learn about the impact of illness and disease on the individual, family and society, and the role of the healthcare services in alleviating illness. Case-based, group learning is supported by lectures, practical sessions and stand-alone modules. Students are guided to develop key life skills required for an effective healthcare professional, including a multidisciplinary team approach. Cases have relevance to healthcare issues regionally and nationally.

**DP requirements:** Attendance at all problem-based learning sessions, tutorials, stand-alone units and practical sessions; completion of all set assignments and assessment activities.

**Assessment:**
Assessment tasks include written papers, computerised tests, practical examinations and a portfolio of work that comprises written assignments, computerised EMI and MCQ tests, oral assessments and practical book work. Regular self-assessment activities provide feedback to students on their progress. In year 3, all the in-course assessments comprise 60% of the total final mark. The final examination at the end of year 3 constitutes 40% of the total final mark. The weightings for the final mark are: 20% March Test, 5% Introduction to Neuroscience Test, 7.5% Neuroscience Test 1, 20% Neurosciences Test 2, 7.5% portfolio and 40% final examination. In order to be considered eligible for a supplementary examination, students are required to have achieved a total mark for year three of 45-49%, and to have passed at least one class test or the final examination. Students who are granted a supplementary examination will have their results calculated using the same weightings as the original total mark for the year, and the mark achieved in the supplementary exam will be substituted for the final examination mark.

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**PTY4008S  MEDICINA FORENSIS**

*This course is offered by Division of Forensic Medicine and Toxicology in Department of Pathology. The maximum intake is 30 students.*

9 NQF credits at HEQSF level 8; 15 lectures.

**Convener:** Dr Y van der Heyde

**Course entry requirements:** None

**Course outline:**
This course covers the South African legal system and statutory obligations of doctors and healthcare workers; introduction to human anatomy and physiology; introduction to medico-legal concepts of life and death; the changes which occur in the body after death; the mechanisms of injury and death causation; identity and disputed parenthood; sexual offences and violence against women; choice of pregnancy termination; child abuse and other forensic aspects of paediatric medicine; iatrogenic disorders; intoxication and drunken driving; drug addiction and poisoning as cause of death; pathology of head injury; and anoxic mechanisms as cause of death.

**Lecture times:** Monday double lecture from 15h00 to 16h45.

**DP requirements:** None.

**Assessment:** One two-hour written examination in October/November (100%) and a 20-minute oral examination for a pass/fail result.

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**PTY5012W  FORENSIC MEDICINE FOR EXTERNAL CREDIT**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PTY5112X, PTY5212X, PTY5312X, PTY5412X, PTY5512X*  

10 NQF credits at HEQSF level 8

**Convener:** Dr I Molefe

**Course outline:**
This course is four weeks in duration starting with only Wednesday afternoon lectures during the two weeks of the Anesthesia/Forensic Medicine block, followed by 2-week full rotation in the Division of Forensic Medicine and Toxicology. The course comprises eight (8) large group face to face lecture seminars, (2) online lecture seminars and four (4) practical tutorials at the Salt River Forensic Pathology Laboratory of at least four hours’ duration each. The core curriculum has been designed to highlight the forensic pathology and clinical forensic medicine problems and topics encountered by generalist medical practitioners. Students are expected to be able to complete
medico-legal documentation, recognise, and correctly refer cases needing expert medico-legal opinions in preparation for potential expert testimony in criminal court cases and inquest hearings for the Department of Justice & Constitutional development. Learning outcomes are based on the core knowledge and practical skills on selected topics presented in large group seminars, small group sessions and tutorials, as well as the four topics covered in the four tasks presented during the 2-week block.

**DP requirements:** As a DP requirement students are expected to attend of all 4 practical sessions at the Salt River Forensic Pathology Laboratory as stipulated in the course guide, attendance of and/or participation in 60% of plenary sessions and completion of 4 tasks which comprise the in-course assessment. In addition, students must achieve a subminimum of 50% in their coursework to be eligible to write the final Forensic Medicine exam.

**Assessment:** The final mark is made up of in-course task assignments (40%), practical skill task/procedure (10%) and the final written short answer question (SAQ) examination (50%). Competency in Forensic Medicine requires achievement of a subminimum of the 50% in the in-course, 50% in the written exam and 50% in the practical skill task/procedure.

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**PTY6012W FORENSIC MEDICINE**

*A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to:* PTY6112X, PTY6212X, PTY6312X, PTY6412X, PTY6512X

10 NQF credits at HEQSF level 8; Lectures (10); tutorials (7).

**Convener:** Dr I J Molefe

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Co-requisites:** None

**Objective:** The course is designed to equip students with skills to practice medicine according to South African medical laws and ethical rules, to complete medico-legal documentation encountered in general patient care, recognise medico-legal cases (clinical and pathological) that need referral to centres of expertise; to recognise what immediate steps should be taken to prevent loss of evidence before referral; and to ensure preservation of any pathology and evidence before referral.

**Course outline:**

This course is two weeks in duration during a four-week block with Anaesthesia. It comprises 10 large group seminars and four practical tutorials at the Salt River Forensic Pathology Laboratory of at least four hours’ duration each. There are task feedback tutorials; the rest of the time is spent in self-directed learning. Learning outcomes are based on the core knowledge and topics presented in large group seminars, small group sessions and tutorials, as well as the four topics covered in the four tasks presented during the two-week block. The learning outcomes are categorised broadly into core knowledge, core skills and professional/ethical behaviour. The core curriculum has been designed to highlight the forensic pathology and clinical forensic medicine problems and topics encountered by generalist medical practitioners. Students are expected to be able to complete medico-legal documentation, recognise, evaluate, appropriately assess and offer expert opinions on core subjects, in preparation for potential expert testimony in criminal court cases and inquest hearings for the Department of Justice.

**Lecture times:** Specified in the course guide available at the time of registration for the block rotation.

**DP requirements:** Students are expected to attend of all four practical sessions at the Salt River Forensic Pathology Laboratory as stipulated in the course guide, attendance of and/or participation in 80% of plenary sessions, completion of five tasks and deliver a presentation during the attachment. The tasks and presentation comprise the in-course assessment, as stipulated in the course guide. In addition, students must achieve a subminimum of 50% in their coursework to be legible to write the final Forensic Medicine exam. Competency in Forensic Medicine requires achievement of three aspects: a subminimum of the 50% in the in-course assessment, a subminimum of the 50% in the final examination, and passing the final exit OSCE.

**Assessment:** The final mark is made up of in-course assessments (40%) and the final examination (60%). The exit OSCE component forms part of the overall final MBChB clinical assessment.
PSYCHIATRY AND MENTAL HEALTH

J-Block, E36A, Groote Schuur Hospital

Professor and Head:
DJ Stein, BSc (Medicine) MBChB Cape Town FRCPC PhD DPhil Stell

Sue Struengmann Professor of Child & Adolescent Psychiatry:
PJ de Vries, MBChB Stell MRCPsych London PhD Cantab

Vera Grover Professor of Intellectual Disability:
S Kleintjes, MA MPhil PhD Cape Town

Professors:
J Joska, MBChB MMed PhD Cape Town FCPsych SA
C Lund, BA UKZN BAHons MA PhD Cape Town MSocSci Rhodes
J van Honk, PhD Utrecht

Associate Professors:
J Hoare, MBChB MPhil Cape Town MRCPsych FCPsych SA
F Howells, PhD Cape Town
SZ Kaliski, BA MBBCh Witwatersrand MMed PhD Cape Town FCPsych SA
M Schneider, BSc (Logopaedics) Cape Town MA Reading PhD Witwatersrand
K Sorsdahl, PhD Cape Town

Emeritus Professors/Associate Professors:
CM Adnams, BSc UKZN BSchons (Medicine) MBChB Cape Town FCPaed SA
A Berg, MBChB Pret MPhil Cape Town FCPsych SA
LS Gillis, MD DPM Witwatersrand FRC (Psych) UK
CD Moltzeno, MBChB MMed MD Cape Town BAHons PhD Unisa DCH RCP UK
BA Robertson, MD Cape Town Dip (Psych) McGill FCPsych SA
T Zabow, MBChB DPM Cape Town FCPsych SA MRCPsych UK

Lecturers/Senior Lecturers:
M Abbas, BA Unisa MPsych UWC
L Abrahams, MPsych UWC
T Abrahams, MA
N Alie, BSocSci UKZN BSchons Unisa MA Rhodes
RR Allen, BSc MBChB MBA Cape Town FCPsych SA
F Ashburner, MA UJ
E Benjamin, MA Cape Town
N Cader, MA
C Capri, BSocSciHons Cape Town MA PhD DPhil Stell
B Charles, MMed Cape Town
O Coetzee, MA PU for CHE
Q Cossie, MBChB Cape Town FCPsych DMH SA
S Dalvie, BSchons (Medicine) MSc (Medicine) PhD Cape Town
L Dannatt, MBBCh Witwatersrand DMH SA DCH SA MMed Stell FCPsychy SA
JJ Dawson-Squibb, MA PhD Cape Town
C de Clercq, MBChB Pret FCPsych SA
W de Jager, MA UPE
C Dean, MPsych UWC MBA Milpark/Oxford Brookes
G Douglas, MSc (Nursing) Witwatersrand MA Cape Town
N Dyakalashe, MBChB MMed Cape Town
I Eloff
L Frenkel, MA *Witwatersrand*
P Gasela, MBChB *Cape Town* FCPsych Cert (Child & Adolescent Psych) *SA*
N Groenewold, MSc MSc PhD *Groningen*
T Henderson, MBChB FC Psych MPhil Cert (Child & Adolescent Psych) *Cape Town*
AJ Hooper, MBChB *Cape Town* FCPsych *SA*
I Hoosen, MBChB *Cape Town* MRCPsych UK Dip (Occupational Health) UK Dip (Cognitive Behavioural Therapy) *Birmingham*
H Julius, BA Hons *UWC* MACape Town
Z Kahn, MBChB MMed
K Kamaloodien, BSc SocSc *Cape Town* MPsych *UWC*
M Karjiker, MBChB *Witwatersrand* FCPsych *SA*
N Koen, MBChB PhD *Cape Town*
N Lalkhen, MA *Stell*
I Lewis, BSc MBChB MMed *Cape Town* FCPsych *SA*
D Liedeman, MPsych *UWC* PGDip (Addictions Care) *Cape Town*
A Marais, PhD *Cape Town* MASTell
K Mawson, MBChB MMed *Stell* DA *SA*
S Mkabile, MA *UWC*
K Moloto
A Moodley, MBChB *UKZN* FCPsych *SA* MMed *Cape Town*
S Mkabile, MA *UWC*
P Naude, MSc UPE PhD *Groningen*
R Ori, MBChB Natal DMH FCPsych *SA* MMed *Cape Town*
L Parasram, MBChB *Witwatersrand* DMH FCPsych *SA*
JS Parker, MBChB *Cape Town* FCPsych *SA*
N Parker, MPsych *UWC*
Z Parker, MA *Cape Town* MPsych *UWC*
D Pieterse, MBChB *Stell* DCH DMH FCPsych *SA* MMed *Cape Town*
T Roos, MBChB *Cape Town* DMH *SA* MMed *Stell* FCPsych *SA* RCPsych *London*
M Roffey, MBChB *Cape Town* FCPsych *SA*
NG Sibeko, MBChB *UKZN* PhD *Cape Town*
P Smith, MBChB *Cape Town* FC Psych *SA*
T Swart, BSc *Cape Town* MSc *UKZN* PhD *Cape Town*
L Thela, MBChB FC Psych *SA* MMed *UKZN*
H Temmingh, MBChB MMed *Stell* FC Psych *SA* MPH *Cape Town*
H Thornton, MA *Rhodes* PhD *Stell*
T Timmermans, MBChB *Cape Town* FC Psych *SA*
W Vogel, MBChB MMed MSc *Witwatersrand* FF Psych *SA*
MF Williams, MBChB *Cape Town* FC Psych *SA*
PF Williams-Ashman, MBBC *Witwatersrand* FC Psych *SA*
J Yako, MA *Cape Town*

**Honorary Professors/Associate Professors:**
C Allgulander, MD PhD *Karolinska Institutet*
D Baldwin, DM *Southampton* FRCPsych MRCPsych MB BS *London*
D Castle, MBChB MD *Cape Town* MRCPsych FRCPSYCH MSc *London* DLSHTM
FRANZCP GCUT *Melbourne*
AW Carrico, PhD *Cape Town*
L Cluver, DPhil *Oxon*
D Edwards, Psych (Hon) Oxon MA PhD *Rhodes*
SW Jacobson, MA *Brandeis* MA PhD *Harvard*
JL Jacobson, MA PhD *Harvard*
C Kuo, BA *Virginia* DPhil Oxon
J Leff, MBBS London MRCP UK MD London FRCPsych UK
I Marks, MBChB MD Cape Town DPM MRCPsych FRCPsych London
C Mathews, BA Natal MSc PhD Cape Town
B Myers, MSoe Natel PhlD Cape Town
M Robertson, MBChB MD DSc Cape Town DPM FRCPsych FRCP FRCPCW MRCPsych London
O Shisana, BA UNIN MA Loyola PhD South Florida ScD Johns Hopkins
L Simbayi, BSc Zambia MSc Utah DPhil Sussex
K Sikkema, PhD Cape Town
M Tomlinson, BA Rhodes BAHons Witwatersrand MA Cape Town PhD Reading
D Williams, BThHons Southern Caribbean MDiv Andrews PhD Michigan
C Zlotnik, MA Witwatersrand PhD Rhode Island

Honorary Lecturers:
T Amos, MA UWC PhD Cape Town
SE Baumann, MBChB BA Cape Town FCPsych SA MRCPsych UK
B Dickman, PhD Cape Town
A Gevers, BA Grinnell College MA Missouri St. Louis PhD Cape Town
NR Horn, MBChB Cape Town PGDip (CogTher) Manchester MRCPsych UK
A Mason-Jones, BAHons MA (Public Health) PhD Nottingham
I McCallum, BA BSocSc MBChB Cape Town FCPsych SA
U Meys, MBChB MPhil Cape Town FCPsych SA
A Muller, BCur NMMU MCur (Psychology) UJ
A Robins, MBChB Cape Town MD Witwatersrand DRM England MRC Psych London
C F Ziervogel, MBChB Cape Town FCPsych SA

Research Officers/Senior Research Officers:
LS Andersen, PhD Hoftsra
EC Baron, BSc Reading MSc Durham
E Breuer, BAppScHons Sydney MPH Cape Town
SD Cooper, BAHons MPH Cape Town
T Davies, BAHons Rhodes MPhil Cape Town
BL Evans, MA Unisa
S Field, BA Hons Rhodes MA Southampton
H Gouse, PhD Cape Town
S Honikman, MBChB MPhil Cape Town DCH DObstet SA
J Ipser, MSc (Epidemiology) Columbia PhD Cape Town

Research Fellow:
V Ives-Deliperi, BA Unisa PhD Cape Town
P Du Toit

Addiction Psychiatry:
G Sibeko, MBChB UKZN PhD Cape Town
H Temmingh, MBChB MMed Stell FCPsych SA MPH Cape Town

Child and Adolescent Psychiatry:
W Vogel, MBChB MMed (Psych) MSc Witwatersrand FF Psych SA

Consultation-Liaison Psychiatry:
L Frenkel, MA Witwatersrand
J Hoare, MBChB MPhil Cape Town MRCPsych FCPsych SA

Forensic Psychiatry:
SZ Kaliski, BA MBBSH Cape Town FCPsych SA
General Adult Psychiatry:
RR Allen, BSc MBChB MBA Cape Town FCPsych SA
Q Cossie, MBChB Cape Town FCPsych DMH SA

Intellectual Disability Psychiatry:
S Kleintjes, MA MPhil Phd Cape Town

Neuropsychiatry:
J Joska, MBChB MMed PhD Cape Town FCPsych SA

Psychopharmacology and Biological Psychiatry:
F Howells, PhD Cape Town
N Koen, MBChB PhD Cape Town

Psychotherapy:
L Abrahams, MPsych UWC
W Hawa

Public Mental Health:
K Sorsdahl, PhD Cape Town

**PRY2001S  SPECIAL STUDY MODULE**
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal

**Course entry requirements:** All first year MBChB courses.

**Objective:** The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.

**Course outline:**
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.

**DP requirements:** Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.

**Assessment:** Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.
PRY2002W  PSYCHIATRY FOR OCCUPATIONAL THERAPISTS
14 NQF credits at HEQSF level 6; 31 lectures 14h00-16h00 Wednesdays.
Convener: Dr AJ Hooper
Course entry requirements: PSY1005S or PSY1007S
Objective: To prepare OTs for professional work with people suffering from psychiatric disorders and intellectual disability.
Course outline:
This course aims to teach occupational therapy students about the definitions, aetiology, clinical signs and symptoms, assessment and management, and prognosis of the major psychiatric conditions as classified in the ICD10 or DSM5. The intentions are to equip students with a sound theoretical knowledge of psychiatry symptomatology and conditions, to enable them to recognise a condition clinically and to comprehend management procedures and options, so as to appreciate the role of occupational therapy in conjunction with other disciplines. It also intends to foster an awareness of legal, ethical and cultural considerations that arise in the field of mental health and to provide a basic knowledge of the mental health service structure and available mental health resources. Finally, the course introduces discussion about legal, ethical and cultural factors that impact on patient management in the South African context and provides practical information about transforming health services and mental health resources.
DP requirements: Full attendance and participation in all learning activities and completion of all coursework by the due dates.
Assessment: Two written tests of two hours during the course of the year – 30% each; end-of-year two-hour written examination – 40%; oral for borderline pass/fail or distinction candidates. The final result will be compiled as follows: April test (30%); June test (30%); and November examination (40%).

PRY4000W  PSYCHIATRY
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PRY4100X, PRY4200X, PRY4300X, PRY4400X, PRY4500X
30 NQF credits at HEQSF level 8
Convener: Dr Q Cossie
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
Clinical psychiatry is taught in year 4 at Valkenberg, Lentegeur, Alexandra, Groote Schuur and Red Cross hospitals in a six-week block. All of the formal teaching takes place at Valkenberg Hospital. At the first meeting, students are given an orientation to psychiatry and there is a discussion on the aims and objectives of the course. The first week of the block is set aside for formal teaching and from the second week onwards there is clinical teaching and formal teaching. Students are expected to attend all seminars and case presentations. Students are in the wards from 08h30 until 12h30 and from 14h00 to 16h30. Their clinical duties under supervision include the assessment and clerking of patients; attending ward rounds where they present their findings; and the follow-up and management of these patients, where possible. They are required to keep a portfolio (extended descriptive logbook) of all patients seen. The basics of psychiatry (general psychiatry, child and adolescent psychiatry, women’s mental health, medico-legal issues pertaining to psychiatry, addictionology and community psychiatry) are covered in a mixture of lectures, seminars, case presentations and self-directed learning exercises. This is taught in small groups of six to 10 students and whole-group activities during the block.
DP requirements: 80% attendance of all teaching and clinical activities. Registers of all formal teaching and clinical activities will be kept. Should the course convener and supervising consultant deem it necessary for the student to make up lost clinical time and the student cannot make up the lost time; the student will have to repeat the course in its entirety.
Assessment: The psychiatry assessment is made up of a written paper (40%); a ward assessment looking at the knowledge and skills of psychiatry as displayed in clinical interactions, and participation in ward activities (15%); a written portfolio case report (25%); and a computerised
multiple choice/extended matching questions assessment (20%). The assessments take place during the last week of the block. Students require a mark of 50% or more overall to pass psychiatry. There is no supplementary examination for the course. A student who fails psychiatry will be required to repeat the course at the start of the next calendar year.

PRY4001W  PSYCHIATRY FOR EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PRY4101X, PRY4201X, PRY4301X, PRY4401X, PRY4501X
15 NQF credits at HEQSF level 0
Convener: Dr Q Cossie
Co-requisites: None
Course outline:
Students learn the clinical basics of Psychiatry and to learn the disease categories in a bio-psycho-social context.
DP requirements: 80% attendance of all teaching and clinical activities monitored by registers of these. Completion and submission of the required number of portfolio case writeups as stipulated in the course manual. Should the course convener and supervising consultant deem it necessary for the student to make up lost clinical time and the student cannot make up the lost time, the student will have to repeat the course.

PRY5001W  PSYCHIATRY AND MENTAL HEALTH FOR EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PRY5101X, PRY5201X, PRY5301X, PRY5401X, PRY5501X
30 NQF credits at HEQSF level 8
Convener: Dr M Karjiker
Course outline:
To work as a student intern in the multidisciplinary team and to manage cases under supervision. To become clinically competent within the nine core areas of clinical practice. To have done prescribed ward work, presentations and portfolio cases.
DP requirements: Attend clinical work, ward rounds, portfolio cases and tutorials.

PRY6000W  PSYCHIATRY AND MENTAL HEALTH
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PRY6100X, PRY6200X, PRY6300X, PRY6400X, PRY6500X
21 NQF credits at HEQSF level 8
Convener: Dr M Karjiker
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
This is a full-time clinical block of four weeks during which the student intern participates as a full member of the psychiatry team. This includes responsibility for managing patients, which entails clerking, investigating and presenting of completed data under supervision of a registrar or consultant. The student interns are expected to attend all ward meetings, departmental academic meetings and journal clubs. Every Friday, they present cases and discuss clinical material with the course convener/senior supervisor. The students are attached to units at Valkenberg Hospital, Lentegeur Hospital or Groote Schuur Hospital. A core component of the clerkship is the continued development of a portfolio of learning, in which the student intern is expected to collate at least four patients’ case records, reflecting his/her involvement inpatient management. The portfolio of learning forms part of the assessment process.
DP requirements: a) Full attendance of the clinical and teaching programme. If there is approved absence the student must discuss with the ward consultant and the course convener ways in which the student must make up the missed time. If the conclusion of both clinicians is that the absence of the student was not justified then DP will be refused. (b) Professional conduct, dress and
punctuality as prescribed by the convener and the clinical supervisors. (c) Full integration with a professional work ethic as a student intern into the clinical team. The ward consultant and clinical team will set the parameters of the clinical work. (d) One portfolio case must be handed to the ward consultant by the last Thursday of the block and three cases must be handed to the departmental administrator at the exam venue on the last Friday of the block, before writing the written paper. A student will not be permitted to write the written paper if the portfolio is not handed in at the exam venue. Failure to hand in the portfolio is evidence of lack of engagement with clinical work and thus the student will be denied a DP. (e) Academic topic presentation to be done for the first Friday of the block for use in the whole group teaching seminar. It must be emailed by the Thursday evening of the first week of the block to the convener and the departmental administrator. It must be emailed to the entire student group after the seminar on the first Friday of the block.

**Assessment:** The final course mark comprises marks for the ward assessment (20%); academic presentation (10%); portfolio (20%) and end-of-block written paper (50%). No supplementary examinations are offered in this course.
PUBLIC HEALTH AND FAMILY MEDICINE

Level 5, Falmouth Building South

Professor and Director and Head of Department:
L Myer, AB Brown MA MBChB Cape Town MPhil PhD Columbia

Environmental Health

Level 4, Falmouth Building South

Professor and Head:
HA Rother, BA MA PhD Michigan

Professor:
A Dalvie, BSc BSChons (Medicine) MSc (Medicine) PhD Cape Town

Visiting Professors:
T Arcury, BA Duquesne MA PhD Kentucky
S Quandt, BA Lawrence MA PhD Michigan

Honorary Professor:
K Ahmed, BSc MSc Karachi BSPhD Minnesota

Senior Lecturer Full-time:
J Irlam, BSChons (Medicine) MPhil Cape Town

Honorary Senior Lecturers:
G Manuweera, BSc MPhil Peradeniya PhD Missouri
M Miller, BSc BS (Nursing) Ohio MSc (Nursing) Seattle
S Willis, BSChons Newcastle DPhil Oxford
C Godsmark, BA BSChons MSc (Medicine) PhD Portsmouth

Assistant Lecture:
R Mlelwa, BSc MSc Tanzania

Honorary Research Associate:
A Zimba, BA MA Cape Town PhD Fort Hare

Epidemiology and Biostatistics

Level 5, Falmouth Building South

Associate Professor and Head:
M Lesosky, BSc MSc PhD Guelph PGDip (Health Professional Education) Cape Town

Professor:
L Myer, BA Brown MA MBChB Cape Town MPhil PhD Columbia

Honorary Professors:
D Bradshaw, BSc UKZN MSc Cape Town PhD Oxon
J McIntyre, MBChB Zimbabwe FRCOG
C Wiysonge, PhD
Honorary Associate Professors:
A Lefevre, BA Lehigh MHS PhD Johns Hopkins
L Dodd, BSc Utah MSc PhD Washington
M Rangaka, MBChB Cape Town MSc MPhil PhD London
S Reynolds, BSc Toronto MD McGill MPH Johns Hopkins

Senior Lecturer:
J Neayiyana, BSc UKZN MSc Witwatersrand PhD North Carolina

Honorary Senior Lecturers:
A Cois, BSc MSc Caligiari MPH PhD Cape Town
DJ Davey, BA Colorado MPH Columbia PhD UCLA
N Ford, BSc Warwick MPH Cape Town PhD Simon Fraser
K Kelly, BA MA UKZN PhD Rhodes
D Maman, MD Lannec PhD Lyon
M Wallace, BA Cape Town MSc UCL PhD West England
T Tucker, MBChB PhD Cape Town

Senior Research Officers:
D Constant, BSc MPH PhD Cape Town
B Kagina, BSc MSc JKUAT PhD Cape Town

Lecturers/Research Fellows:
K Brittain, BSc UKZN MPH PhD Cape Town
T Malaba, BSc Zimbabwe MPH Cape Town
T Phillips, BSc UJ MPH PhD Cape Town
J Odayar, MBChB MPH Cape Town
H Madlala, PhD MPH Cape Town
E Mukonda, MSc Cape Town

Family Medicine
Level 2, Falmouth Building South

Associate Professor and Head:
D Hellenberg, MBChB Cape Town MFamMed Stell FCFP SA Cert (Policy, Planning & Management for Health Sector Reform) (COPHE) UWC ACLS

Honorary Professor:
R Harding, PhD Kings College London

Honorary Associate Professors:
MH Cassimjee, LLMRCP LLMRCS Ireland MPrax Med UKZN FCFP SA BMedScHons UDW Dip (Health Service Management) UKZN
S Mazaza, MBBS MLB MFamMed Cape Town

Associate Professor:
M Namane, MBChB Cape Town MPhil Cape Town BSc MSc UNIN Cert (Community Rheum) Pret MSc (Medical Science) Stell

Senior Lecturers Full-time:
N Beckett, BSc MBChB Stell PGDip (Family Medicine) Cape Town SAFRI Fellow SA
G Bresick, MBChB MPH Cape Town DCH SA
N David, MBChB Witwatersrand MFGP SA
A de Sa, MBChB Cape Town MCFP SA
DEPARTMENTS IN THE FACULTY

E de Vries, MBChB Stell MFamMed Medunsa FCFP SA
A Isaacs, MBChB Cape Town MFamMed Stell
R Krause, MBChB FMfamMed UFS MPhil PGDip (Health Professional Education) Cape Town
L Morales Perez, MBChB MMed Stell PGDip (Health Professional Education) Cape Town
T Motsohi, BA Harvard MBChB FMfamMed PGDip (Family Medicine) Cape Town
T Ras, MBChB MFamMed Cape Town MFGP SA
B Schweitzer, MBChB Witwatersrand DA MFGP SA MPraxMed Medunsa

Senior Lecturer Part-time:
E Gwyther, MBChB MFGP Cape Town Dip (Pall Med) MSc Wales

Lecturers Full-time:
L Ganca, Dip (SecEd) Transkei BASocScHons (Social Work) MPhil PGDip (Health Professional Education) Cape Town
D Matthews, MBChB Witwatersrand PGDip (Family Medicine) Cape Town

Lecturers Part-time:
AJ Barnard, MBChB Dip (Anaesthsia) MFGP SA MPhil Cape Town
DL Miller, MBChB PGDip (Palliative Medicine) MPhil Cape Town
MS Saban, MBChB Cape Town MFamMed Stell FCFP SA

Honorary Senior Lecturers:
K Adamson, MBChB Stell FCFP SA MMed Stell
J Morgan, MBChB MMed Cape Town FCFP SA

Honorary Lecturers:
S Craven, MBChB Oxon LRCP PhD Oxford
J Dhansay, MBChB MFGP SA DPT&M Witwatersrand
S Jacobs, MBChB Cape Town
D Levine, MBChB Witwatersrand
G Petros, Cert (Adult Education) NDip (Public Health) MPH PhD Cape Town
A Sebesteny, MBChB MFamMed Cape Town
K Stammer, MD
N Wellington, MBChB Cape Town DCH SA PGDD Cardiff

Facilitators:
D Biles, MBChB Bristol MRCP Royal College Physicians UK HIV Dip Man CFPSA
K Conradie, MBChB UFS Dip (CH) (HIV Management) SA
J Durandt, MBChB Cape Town PGDip (Palliative Medicine) Cape Town
R Holdman, MBChB Cape Town PGDip (Family Medicine) Stell
Z Horowitz, MBChB Cape Town Dip (Advanced HIV Management) CMSA
MA Jardine, MBChB Cape Town
N Khan, MBChB Cape Town
J Makan, MBChB PGDip (Palliative Medicine) Cape Town
PK Ndlovu, MBChB Medunsa
D Petit, MBChB Cape Town
MA Potts, MBChB Cape Town
A Smith, MBChB PGDip (Family Medicine) Cape Town
S Sondany, MBChB Cape Town MRCGP UK MMed Warwick
J Tait, MBChB Cape Town
R Tayob, MBBCh Witwatersrand
M Setoaba, BSc Witwatersrand MBChB Cape Town
M Margerman, MBChB Cape Town
H Salie, MBChB Cape Town
A Sumner, MBChB MFamMed *Cape Town* Dip (Child Health) SA

**Registrars:**
N Amien  
AC Anele  
A Ashwedi  
B Baheir  
F Dookith  
J Etonu  
C Ezulu  
G Hofmyer  
M le Roux  
B Machina  
SI Ohiagu  
R Ortel  
L Profitt  
R Jansen  
N Snyders  
J Steyn  
J Stofberg  
M Tanjour

**Health Economics**  
*Falmouth Annex*

**Associate Professor and Head:**  
E Sinanovic, BSc *Zagreb* PG Dip (Financial Management) *Maastricht* MCom *Cape Town* PGDip PhD *London*

**Associate Professors:**  
JE Ataguba, BSc *Nigeria* MPH PhD *Cape Town*  
S Cleary, BA *Rhodes* BAHons MA PhD *Cape Town*

**Senior Lecturer:**  
OA Alaba, BSc MSc PhD *Ibadan*

**Honorary Senior Lecturer:**  
V Govender, BCom *UKZN* MCom *Cape Town* MPH *Boston* PhD *Cape Town*

**Research Officers:**  
L Cunnama, BSc (Physiotherapy) MPH *Cape Town*  
T Wilkinson, BPharm *Otago* MSc *York*  
V Mutyambizi-Mafunda, BBusSci MCom *Cape Town*

**Health Policy and Systems**  
*Level 1, Falmouth Building South*

**Professor and Head:**  
L Gilson, BAHons Oxon MA *East Anglia* PhD *London*

**Associate Professors:**  
J Olivier, BA MPhil PhD *Cape Town*  
M Shung King, MBChB *UKZN* DPhil Oxon
Senior Researcher:  
M Orgill, BAHons *UWC* MPhil *Cape Town*

Research Officer:  
G Khan, BPsych MA *UWC*

Honorary Professors:  
I Aygepong, MBChB *Ghana* MCommH *Liverpool* DRPH *North Carolina*  
U Lehmann, PhD *Hanover*  
H Schneider, MBChB *Cape Town* DCH DTMH MMed *Witwatersrand*

Honorary Senior Lecturers:  
K Daniels, BAHons MPH *Cape Town* DrPH *Nordic School of Public Health*  
M Moodley, MBChB *UKZN* MBA *Cape Town*  
D Molosiwa, MHealthAdmin *Ohio* PhD *Australia*  
G Teddy, MA *Ghana* PhD *York*

Honorary Lecturer:  
M Osman, MBChB *Cape Town* MSc *Columbia*

Junior Research Fellow:  
L Brady, MBChB *Pret* MPH *London*

Senior Scholar Emeritus:  
J Cochrane, BSc PhD *Cape Town* MDivinity *Chicago*

Honorary Research Associate:  
R English, MBChB MMed PhD *Cape Town*

**Occupational Medicine**  
*Level 4, Falmouth Building South*

Professor and Head:  
MF Jeebhay, MBChB *Natal* DOH MPhil *Cape Town* MPH PhD *Michigan*

Emeritus Professor and Senior Scholar:  
R Ehrlich, BBusSc MBChB PhD *Cape Town* DOH *Witwatersrand* FFCH FCPHM (Occupational Medicine) *SA*

Emeritus Professor:  
G Todd, BSc *UKZN* MBChB PhD *Cape Town* FC Derm *SA*

Senior Lecturer:  
S Adams, MBChB DOH MMed PhD *Cape Town* MFamMed *Stell* FCPHM (Occupational Medicine) *SA*

Senior Lecturer Part-Time:  
AH Burdzik, MBChB MMed *Cape Town* Dip (Occupational Medicine) UK FCPHM (Occupational Medicine) *SA*

Honorary Senior Lecturers:  
G Kew, MBChB DA *SA* DOH *Cape Town*  
S Manjra, MBChB *Natal* MMedSc *Birmingham* BSChons (Medicine) DOH *Cape Town*  
A Raynal, MBChB *Cape Town* MSc *LSHTM* MPHM MFOM UK
J te Water Naude, MBChB MPhil Cape Town FCPHM SA
J van Zyl, MBChB MMed Dip (Medicine) (Occupational Health) Stell FAADEP CIME USA FCPHM SA

**Honorary Lecturers:**
B Andrews, MBChB Cape Town, DOH MMed Stell, FCPHM (Occupational Medicine) SA
B Cloete, MBChB DOH MMed Cape Town FCPHM (Occupational Medicine) SA
S Fakie, MBChB DOH Cape Town
D Knight, MBChB MMed Cape Town
H Williams, MBChB DOH MMed Cape Town FCPHM (Occupational Medicine) SA

**Research Co-ordinator:**
R Baatjies, BTech MTech CPUT MPH Witwatersrand PhD Cape Town

**Registrars:**
I Ntatamala
Z Sunday

**Public Health Medicine**
*Levels 2 and 4, Falmouth Building South*

**Professor and Head:**
L London, MBChB MMed MD Cape Town BScHons (Medicine) Stell DOH Witwatersrand

**Professor:**
A Boulle, MBChB PhD Cape Town MSc London FCPHM SA

**Honorary Professors:**
T Rehle, MD Munich MPH LSHTM PhD Antwerp
N Morojele, PhD Kent
R Matzopoulos, BBusSci MPhil PhD Cape Town

**Visiting Professors:**
F Coomans, PhD Maastricht MA Italy
S Whittaker, MBChB MMed PhD Cape Town FFCH SA

**Associate Professor:**
D Coetzee, BA Cape Town MBChB DPH DTM&H DOH Witwatersrand FFCH SA MSc Columbia

**Associate Professor Part-time:**
G Perez, BDentistry Algiers DHSM MDent Witwatersrand

**Honorary Associate Professors:**
T Oni, BSc London MBBS UCL MPH MMed Cape Town MD Imperial MRCP DFPH UK FCPHM SA

**Honorary Adjunct Associate Professor**
R Foster, PhD Cape Town

**Senior Lecturers Full-time:**
J Irlam, BScHons (Medicine) MPhil Cape Town (Joint School-Directorate of Primary Healthcare appointment)
N Jacob, MBChB MMed Cape Town FCPHM SA
DEPARTMENTS IN THE FACULTY

V Zweigenthal, BSc DTM&H DPH *Witwatersrand* BSoeScHons MBChB PhD *Cape Town* FCPHM SA
N Mapukata, ND BTech (Medical Technology) *CPUT/DUT* MSc UK MSc *Witwatersrand* Cert (HIV/AIDS Care & Counselling) Unisa Cert (Introduction to Theory of Change) *Witwatersrand*

Honorary Senior Lecturers:
E Goemare, MSc MD DTMH *Belgium* DSc *Cape Town*
S Moyo, MBChB MPH Dip MSHS PhD
T Naledi, MBChB *Cape Town* FCPHM
D Pienaar, MBChB MMed *Cape Town*

Lecturers Full-time:
F Amien, BChD MChD *Cape Town*
I Datay, MBChB *Cape Town* DPhil Oxon (Joint School-Directorate of Primary Healthcare appointment)
S Toto, BSc (Occupational Therapy) *Cape Town*

Lecturer Part-time:
R Morar, MBChB *Natal* DHMEF MMed *Cape Town* FCPHM SA

Honorary Lecturers:
G Denicker, MSc *Oxford* BChD *UWC*
M Willems, BA (Occupational Therapy) Stell MPH *Cape Town*
V Shaw, PhD *Norway*
E Morden, BSc MPH *Cape Town*

Senior Research Officer:
T Boule, BSc (Occupational Therapy) MPH *UWC*

Post-Doctoral Research Fello:
H Haricharan, MA *Cape Town* MJournalism *Canada* PhD *Cape Town*

Medical Natural Scientist:
N Zinyakatira, BScHons *Zimbabwe* MPhil Cer(Project Management) *Cape Town*

Honorary Research Associates:
A Cassidy, MPH *Cape Town*
N Harker-Burnhams, PhD *Cape Town* BAHons MPhil *UPE*
J McLoughlin, MBChB MPH *Cape Town*
K Rees, MBBC *Witwatersrand* DOH MPH *Cape Town* FCPHM SA
M Richter, LLM BAHons BA *Witwatersrand* MA USA
CJ Seebregts, BSc BScHons (Medicine) PhD *Cape Town* BScHons Unisa
A Saban, BSc BScHons MA PhD *Cape Town*

Facilitators:
K Abrahams, BSc SocHons *Cape Town*
B Adebiyi, MSocSc PhD *UWC*
N Arends, BSc (Physiotherapy) *UWC* MPH *Cape Town*
T Asmall, BMEdHons *Cape Town*
L Binza, BSc (Social Work) *UKZN*
M Blacker, BScHons (Medicine) *Cape Town*
M Botsis, BA *Rhodes* Dip (Higher Education) Stell*
M Chidavaeni, BSc SocSc *Cape Town*
N Chikte, BScHons (Biokinetiks)
N Chukwudi, MBChB Cape Town
G Cook, BScHons UK Dip (Careers Guidance) Kent
K Dikgomo, BMedSciHons Cape Town
K Fataar, BSocScHons Cape Town
S Felaar, BSocSc Cape Town MPH Sahmyook South Korea
L Hobani, BScHons
P Hoffman, BSocScHons (Social Work) Cape Town
T Mautsa, BSocScHons Cape Town
S Mohapi, BScHons
M Mutendi, MSocS Cape Town
A Parker, BA Hons Cape Town
F Sayed, BPpsych
E Tsetse, BMedSciHons Cape Town

Registrars:
Z Mgugudo-Sello
T Mosidi
L Mureithi
G Ngubane
A von Delft
J Werner
Y Tembo
M Ismail
N Berkowitz
V Mudalay
B Chetty

Social and Behavioural Sciences
Level 3, Falmouth Building South

Associate Professor and Head:
C Colvin, BA Virginia Tech MA PhD Virginia MPH Cape Town

Honorary Professor:
D Cooper, BSocSc BA Hons PhD Cape Town

Associate Professor:
J Harries, BA Hons MPhil MPH PhD Cape Town

Honorary Associate Professors:
A Harrison, BA Penn MA MPH Johns Hopkins PhD LSHTM
M Lurie, BA Boston MA Florida PhD Johns Hopkins
C Mathews, BA UKZN BSocScHons MSc PhD Cape Town
C Morroni, MPhil MBChB Cape Town PhD Columbia DTM&H LSHTM DFSRH

Honorary Senior Lecturer:
D Peacock, BA Hons California MA San Francisco

Senior Lecturer:
A Swartz, BSocScHons MPH PhD Cape Town

Research Fellow:
Z Trafford, BA Hons Cape Town MSc Edinburgh
Honorary Research Associates:
S Cooper, MPH Cape Town PhD LSHTM
E Stern, MPH PhD Cape Town
Z Duby, MPH PhD Cape Town
E Venables, PhD Edinburgh
L Reynolds, PhD Johns Hopkins

PPH1001F BECOMING A PROFESSIONAL
15 NQF credits at HEQSF level 5
Convener: L Olckers and S Toto
Course entry requirements: None
Course outline:
This course introduces first year students in all health science professions to professionalism and appropriate professional conduct. The course aims to promote the conduct, knowledge, attitudes and values associated with being a professional and a member of a professional team. Students learn interpersonal skills, including being non-judgemental, empathetic, ethical and respectful of human rights when working with colleagues, clients, patients and community members who may have different values and traditions. Students learn theory on interviewing and interpersonal skills which are applied in simulated and real interviews; theory related to group and social roles applied in simulated experiences to build team membership and leadership skills; and critical analysis of and reflection on professional conduct, diversity, health and human rights. The educational approach is participatory and experiential and all students are required to engage actively in facilitator-lead small learning groups. Academic, digital and information literacies are systematically integrated from the outset. The course also includes a workshop on HIV-AIDS, designed to introduce students to the relevance of HIV-AIDS issues in their private and professional lives.

DP requirements: Attendance of all small group learning sessions and other academic commitments, including the HIV-AIDS workshop; completion of all set assignments and assessment activities.

Assessment: Continuous, performance-based in-course assessments provide students with regular feedback. Those students who achieve an average of 60% or above for these in-course assessments are not required to write the final written examination. Those students who average below 60% for their in-course assessments are required to write a final examination and must achieve a minimum of 50% in this examination in order to pass the course.

PPH1002S BECOMING A HEALTH PROFESSIONAL
15 NQF credits at HEQSF level 5
Convener: L Olckers and S Toto
Course entry requirements: PPH1001F
Course outline:
This course builds on the knowledge and skills gained in PPH1001F Becoming a Professional. Focus is on the primary healthcare approach and disability. The course equips students to work collaboratively on a community-oriented project based on the primary healthcare principles and approach, including comprehensive health care (promotive, preventive, curative, rehabilitative and palliative care within the primary, secondary and tertiary levels of care), intersectoral collaboration, community involvement, and accessibility of and equity in healthcare. Students are required to apply the knowledge, skills and values from PPH1001F to develop an appreciation of the contribution of all healthcare professionals to the promotion, maintenance and support of health and the healthcare of individuals, families and communities within the context of disability. The educational approach is participatory and project-based and all students are required to engage actively in the project and in facilitator-lead small learning groups. Academic, digital and information literacies are systematically integrated from the outset. The course includes a basic life support skills workshop.

DP requirements: Attendance of all group sessions, community and health service site visits and the life support skills workshop; completion of all assignments and assessment activities.
**Assessment:** Continuous, performance-based in-course assessments provide students with regular feedback. Those students who achieve an average of 60% or above for these in-course assessments are not required to write the final written examination. Those students who average below 60% for their in-course assessments are required to write a final examination and must achieve a minimum of 50% in this examination in order to pass the course.

**PPH2000W  BECOMING A DOCTOR PART 1A**

_BaDr is comprised of three strands – Family Medicine, Clinical Skills and Languages (isiXhosa & Afrikaans). SLL2002H (Languages code) Becoming a Doctor part IB and SLL3002H (Languages code) Becoming a Doctor Part IIB are integrated with the course content of PPH2000W and PPH3000H but separate course outlines are given in this Handbook._

21 NQF credits at HEQSF level 6; Lectures (3), tutorials (19), site visits for Family Medicine (5), tutorials for Clinical Skills (24), tutorials for Languages (24) - has separate entry under SLL2002H.

**Convener:** Dr N Parker and Dr R Weiss

**Course entry requirements:** Registration in MBChB II and having completed all first year courses.

**Co-requisites:** All DP requirements must be met. The three strands of BaDR courses (Languages, Family Medicine and Clinical Skills) are integrated and must be completed concurrently, but be passed individually in order to pass the course. If one strand is failed, all strands must be repeated.

**Course outline:**
The three strands of the BaDr course aims to integrate family medicine, clinical skills and languages. Students learn and practise interviewing skills. They are exposed to primary, secondary and tertiary care in both the public and private sectors. The family medicine strand develops understanding of delivery of healthcare including palliative care and its management and aspects of health promotion and disease prevention. Students gain practical experience of the doctor-patient relationship, of a bio-psycho-social approach to patient care and the consultation process within a community setting. Learning takes place on campus in small tutorial groups, in community health centres, clinics and other centres where students interact with patients

**DP requirements:** Attending all clinical skills sessions, all language and communication activities, tutorials and practicals, all family medicine tutorials and off-campus visits; completion of portfolios of learning; and undergoing assessment activities. Students may not miss more than two sessions in each of family medicine, languages, or clinical skills during semesters 3 to 5 without official leave of absence or a medical certificate. Students will be marked as absent for the sessions which they miss without producing a valid medical certificate.

**Assessment:** An integrated, structured clinical examination (ISCE) covers the three components of the course. An ISCE tests practical skills, the ability to conduct an appropriate consultation, to communicate with patients and peers, and to communicate (in English, Afrikaans and isiXhosa) at a level sufficient for a basic sharing of health-related information. Students also complete a portfolio of learning using a reflective model. These portfolios are assessed. In-course assessments (assignments, written assessments and ISCEs held during and at the end of semester 3) constitute 50% of the final mark for PPH2000W. The ISCEs, written assessment and assignments during and at the end of semester 4 constitute 50% of the final PPH2000W mark. Each of the course components contributes equally to the course mark and must be passed independently. If a student fails one of the components, a maximum mark of 45% (where the fail mark is < or = 45%) or 46% to 49% (where the fail mark is >45%) is recorded as the final mark. If a student passes the supplementary examination (if awarded) for the failed component(s), the original pass mark for the component(s) is used to calculate the final mark.
PPH2002S  SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal
Course entry requirements: All first year MBChB courses.
Objective: The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.
Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.
DP requirements: Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.
Assessment: Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.

PPH3000H  BECOMING A DOCTOR PART 2A
BaDr is comprised of 3 strands – Family Medicine, Clinical Skills and Languages (isiXhosa & Afrikaans). SLL2002H (Languages code) Becoming a Doctor part IB and SLL3002H (Languages code) Becoming a Doctor Part IIB are integrated with the course content of PPH2000W and PPH3000H but separate course outlines are given below.
10 NQF credits at HEQSF level 7; Lecture (1), on-campus tutorials (9), site visits for Family Medicine (6), tutorials for Clinical Skills (15), tutorials for Languages (15) – have separate entry under SLL3002H).
Convener: Dr N Parker and Dr R Weiss
Course entry requirements: Must have done BECOMING A DOCTOR PART 1 in the preceding year and have passed all 2nd year courses.
Co-requisites: All DP requirements must be met. The three strands of BaDr courses (Languages, Family Medicine and Clinical Skills) are integrated and must be completed concurrently, but be passed individually in order to pass the course. If one strand is failed, all strands must be repeated.
Objective: To help produce an integrated health care professional who is empathic, reflective and knowledgeable.
Course outline:
The three strands of the BaDr course aims to integrate family medicine, clinical skills and languages. Students learn and practise interviewing skills. They are exposed to primary, secondary and tertiary care in both the public and private sectors. The family medicine strand develops understanding of delivery of healthcare including palliative care and its management and aspects of health promotion and disease prevention. Students gain practical experience of the doctor-patient relationship, of a bio-psycho- social approach to patient care and the consultation process within a
community setting. Learning takes place on campus in small tutorial groups, in community health centres, clinics and other centres where students interact with patients.

**DP requirements:** Attending all clinical skills sessions, language and communication activities, tutorials, and practicals, all family medicine tutorials and off-campus visits; completing the portfolios of learning and undergoing assessment activities. Students may not miss more than two sessions in each of family medicine, languages or clinical skills during semesters 3 to 5 without official leave of absence or a medical certificate.

**Assessment:** An integrated, structured clinical examination (ISCE), covering the three course components forms the basis of assessment. The ISCE tests practical skills, the ability to conduct an appropriate consultation, to communicate with patients and peers, and to communicate (in English, Afrikaans and isiXhosa) at a level sufficient for a basic sharing of health-related information. Students also complete a portfolio of learning using a reflective model. The portfolios are assessed. The in-course assessments (assignments, written assessments and ISCEs held during and at the end of semester 5) constitute the final semester 5 mark. Each of the course components (family medicine, clinical skills and languages) must be passed independently. Where a student has failed one of the components, a maximum mark of 45% (where the fail mark is < or = 45%) or 46% to 49% (where the fail mark is >45%) is recorded. If a student passes the supplementary examination (if awarded) for the failed strand/s, the original pass mark for the strand/s will be used to calculate the final mark.

**PPH4056W  HEALTH IN CONTEXT**

* A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PPH4156X, PPH4256X, PPH4356X, PPH4456X, PPH4556X

**40 NQF credits at HEQSF level 8; 20 Lectures; 25 Tutorials and 11 Community visits.**

**Convener:** Professor T Oni, Dr N Beckett, Dr P Wicomb, Dr M Richards, L Ganca and Dr I Datay

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Co-requisites:** All third-year MBChB courses.

**Objective:** The overall aim of the course is to introduce students to the practice of community-oriented primary care through theoretical and experiential learning. Specific objectives are to a) understand the impact of socio-economic and environmental factors on quality of an individual's life and health, so that appropriate clinical and social management decisions can be made; b) to enable students to assess and become involved in initiatives that address socio-economic and environmental causes of ill health within communities and c) to refine teamwork skills through participation in group projects and activities.

**Course outline:**

This integrated course comprises public health, family medicine, palliative care and health promotion. The six-week block introduces students to community-oriented primary care, where the care and determinants of health of individuals and communities are studied. Clinical experience in family medicine and palliative care at a primary care level is integrated with a public health research project, followed by a health promotion intervention. In public health, students study epidemiology, biostatistics, research methods, human rights, research ethics, demography, occupational and environmental health, communicable disease control, health economics, and health needs of vulnerable groups. In health promotion, during projects at community sites and during home visits, students learn skills such as networking, advocacy, communication, organising, facilitation, planning and negotiation, reflection, teamwork, community participation and empowerment. Family medicine and palliative care include clinical attachments in primary care settings and an intermediate healthcare facility, during which students conduct and review video-taped patient consultations and home visits.

**DP requirements:** Completion of all assignments submitted by the deadline/s as stipulated in the course manual; Completion of summative and formative assessments by the stipulated deadlines; Participation in and equal contribution to group-work; Attendance at all clinical and community teaching and group presentations; and 90% attendance of in-class sessions prior to the end-of-block assessment.
Assessment: The following components contribute to the overall mark (a) An epidemiology research protocol (group mark) (12.5%) (b) A health promotion project report (group mark) (12.5%) (c) A combined epidemiology and health promotion oral presentation (group mark) (5%) (d) A motivational interview assessment (4%) (e) A family medicine patient case study (8%) (f) A home visit assignment (8%) (g) The end-of-course written examination is weighted at 50%. This comprises of Public Health, Health Promotion, Family Medicine and Palliative Care. Penalty for late submission of the FM patient study or Home Visit assignment is 5% per day, to a maximum of five days, following which a student will get zero. Students must obtain an overall aggregate of 50% for the course, as well as 50% overall for the in-course assessments and 50% for the end-of-block assessment in order to pass the block. Accordingly, the criteria for failure are: (a) Failure to achieve an overall course mark of 50% (b) Failure to achieve 50% for coursework as above (c) Failure to achieve 50% for the end of block EOB assessment. Students who achieve 48-49% in any of the above components, will be offered a supplementary examination. Students who achieve 47% or less in any of the above components will be required to repeat the course.

PPH6000W FAMILY MEDICINE AND PALLIATIVE MEDICINE
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PPH6100X, PPH6200X, PPH6300X, PPH6400X, PPH6500X
21 NQF credits at HEQSF level 8
Convener: Dr N Beckett and L Ganca
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
The four-week rotation emphasises the theoretical and clinical integration of clinical, public health and behavioural science knowledge, and skills required for family and community-orientated primary care. Students consolidate prior learning by applying the knowledge, skills and professional values gained in all clinical disciplines (particularly family medicine, palliative care and public health) to the diagnosis, management and continuing care of patients presenting to primary care services. Learning materials used in prior learning provide the theoretical basis for practice, research and continuing professional development. The clerkship aims to provide students with a basis for postgraduate training in the practice of family medicine and palliative care and to enter the four-month family medicine internship with the necessary confidence and competence. During the block, all students are based at community health centres (CHCs) within the district health system in the Cape Town metropolitan area for three weeks, and spend one week in Vredenburg, within the rural district health services in the Western Province. Palliative care learning focuses on clinical aspects such as pain management and introduces paediatric palliative care. Palliative care activities include visits to a hospice, patient’s home, intermediate care facility, CHC, paediatric health care facilities and district hospital exposure.
DP requirements: (a) Completion of all required coursework (including a logbook) and attendance of compulsory academic activities on campus (including orientation day session and tutorials/seminars). (b) Attendance of all clinical activities at the community health clinics (CHC), palliative care sites and Vredenburg. (c) Attendance at one SHAWCO session during the family medicine course/clerkship. Any student who misses up to two supervised CHC clinical sessions will be allowed to make up the missed clinical time by doing an additional SHAWCO session for each clinical session missed. A student who misses more than four clinical sessions will be required to do night call in casualty to make up time (in consultation with the convener). (d) Any student who does not submit a signed logbook with completed activities by the last Wednesday of the block will be denied entry to the end of -block OSCE examination. All logbook activities must be signed off immediately by the supervising clinician or healthcare worker, on the day the activity is done.
Assessment: The final mark is made up of (a) an in-course mark, comprising a patient study (20%) and a facility clinical mark (CHC & Vredenburg) (25%) (the facility mark is weighted according to the time spent at Vredenburg and the CHC); and (b) an OSCE (55%). A penalty of 5% per day will be deducted from the patient study component for late submissions of patient studies to a maximum of five days, following which a mark of zero will be allocated. The facility clinical mark includes
assessment of professionalism (punctuality, dress code; involvement in course activities, including clinical activities; attitude towards patients, colleagues and required activities; team-work; and conscientiousness) and clinical knowledge and skills as well as the mini-CEX cases. Any student who achieves less than 50% for the facility clinical component of the in-course assessment, and less than 50% for the end-of-block OSCE will have failed Family Medicine and Palliative Medicine and will not be eligible for a supplementary examination. The student will have to repeat the course.

PPH6001W  LONG ELECTIVE

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PPH6101X, PPH6201X, PPH6301X, PPH6401X, PPH6501X

20 NQF credits at HEQSF level 8

Convener: J Irlam

Course entry requirements: Students are eligible to take this course once in the fifth academic year of study (upon application to and with written permission from the Elective Convener and year or MBChB years 4-6 Convener and limited to the vacation period) or in the sixth year of study.

Objective: To provide students with an opportunity over four weeks to enhance their clinical competence and understanding of the social context of disease and health, and/or their skills in clinical or public health research.

Course outline:

Students are eligible to take this course once in the fifth academic year of study (upon application to and with written permission from the Electives Convener and year 5 or MBChB years 4-6 Convener and limited to the vacation period) or in the sixth academic year.

DP requirements: An evaluation form and activity form (if applicable) signed by the elective supervisor.

Assessment: A written report on the elective for 100 marks within four weeks of the elective. A penalty of one mark per day applies for late submission. The marking rubrics are available on the VULA Electives site. Students who fail (i.e. obtain less than 50% for the elective report) will be given one opportunity to amend the report and re-submit, otherwise they may be required to repeat the elective in the following year.

PPH6005W  SHORT ELECTIVE

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: PPH6105X, PPH6205X, PPH6305X, PPH6405X, PPH6505X

10 NQF credits at HEQSF level 8

Convener: J Irlam

Course entry requirements: Students are eligible to take this course once in the fifth academic year of study (upon application to and with written permission from the Electives Convener and year 5 or MBChB years 4-6 Convener and limited to the vacation period) or in the sixth year of study.

Objective: To provide students with an opportunity over two weeks to enhance their clinical competence and understanding of the social context of disease and health.

Course outline:

Students are required to undertake a self-funded clinical elective anywhere they choose. Students formulate and submit their learning objectives as motivation for their elective at least two weeks prior to the elective. Students identify a supervisor on site at their elective to direct and supervise their elective activities and to evaluate their performance on completion.

DP requirements: A completed student evaluation of the elective using the standard template provided, as well as an evaluation form and activity form signed by the elective supervisor.

Assessment: A Pass/Not Pass assessment is made by the electives convener. No mark is awarded for the report. Students who do not pass (i.e. who do not submit a report) will be given one opportunity to re-submit, otherwise they may be required to repeat the elective in the following year.
RADIATION MEDICINE

Professor and Head:
Rotating head Currently:
J Parkes, MBCh Witwatersrand FCRad Onc SA

Medical Physics
L-Block, Groote Schuur Hospital

Head:
N Joubert, BMedScHons MMedSc UFS

Lecturers:
JD Bruwer, BScHons MSc Stell
H MacGregor, BScHons Stell
A Groenewald, BScHons MSc Stell

Nuclear Medicine
C4/C3, New Groote Schuur Hospital

Head of Division and Senior Lecturer Full-time:

Consultants:
R Steyn, MBChB UFS FCNP SA

Red Cross Hospital:
A Brink, MBChB Pret DCH FCNP SA MMed Cape Town

Paediatric Radiology
Red Cross Children’s Hospital

Senior Lecturers Full-time:
T Kilborn, MBChB Cape Town FCRR UK
NA Wieselthaler, MBChB Cape Town FCRadDiag SA

Lecturer Full-time:
E Banderker, MBChB Cape Town FCRadDiag SA
A Rajkumar, MBChB Cape Town FCRadDiag SA

Radiation Oncology
L-Block, Groote Schuur Hospital

Professor and Head:
J Parkes, MBBCh Witwatersrand FCRad Onc SA

Senior Lecturers Full-time:
AJ Hunter, BScHons (Medicine) PhD Cape Town
Z Mohamed, MBChB Stell MMed Cape Town

Lecturers Full-time:
D Anderson, MBChB Cape Town FCRadOne SA
S Dalvie, MBChB Cape Town FCRadOne SA
N Fakie, MBChB Cape Town FCRadOnc SA
AS Hendrikse, BScHons PhD Cape Town
T Naiker, MBChB Witwatersrand FCRadOnc SA
B Robertson, MBChB Cape Town FCRadOnc SA
T Thebe, MBChB FCRadOnc SA
J Wetter, MBChB Cape Town FCRadOnc SA MMedRadOnc UFS

Radiology
C16, New Groote Schuur Hospital

Professor and Head:
TBC

Emeritus Associate Professor:
SE Candy, BSc HED MBChB FCRad (Diag) SA

Senior Lecturers Full-time:
N Ahmed, MBChB Cape Town FCRadDiag SA
SEI Moosa, MBChB MPhil Cape Town BScHons Stell FFRadDiag SA
Q Said-Hartley, MBChB Cape Town FCRadDiag SA

Senior Lecturers Part-time:
H Ball, MBChB St Andrews FFRad SA
HT Goodman, MBChB Cape Town MPraxMed Pret MFGP FFRadDiag SA FCRR UK

Lecturers Full-time:
R Gamieldien, MBChB Cape Town FCRadDiag SA
K Lorenc Henning, MBChB Cape Town FCRadDiag SA
F Roux, MBChB Stell DA FCRadDiag SA

RAY2001W RADIOBIOLOGY
For students in Faculty of Science; not offered every year.
48 NQF credits at HEQSF level 6
Convener: Dr AS Hendrikse and Dr AJ Hunter


Objective: To be introduced to the basic concepts of radiobiology including its application in radiotherapy.

Course outline:
This course examines the biological effects of ionizing radiation (x-rays, gamma-rays, alpha particles, beta particles and neutrons) on mammalian systems, including radiation-induced cell death, DNA and chromosome damage, mutations and carcinogenesis as well as the mechanisms of radioprotectors and sensitisers. Medical aspects including the radiobiology of radiation therapy of cancer forms a significant part of this course. The radiation pathology of normal tissues and a basic introduction to cancer biology will also be presented. Students who perform well in the course may apply to do the BMedScHons (Radiobiology) once they have completed their undergraduate degrees.

DP requirements: Attendance at all lectures and tutorials and completion of all practicals. Satisfactory marks in tests during the year.
Assessment: Essays, tests and practicals count 50%. Two three-hour examinations written in November count 50%.
RAY2004S  SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal

Course entry requirements: All first year MBChB courses.

Objective: The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.

Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.

DP requirements: Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.

Assessment: Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.
SURGERY

J Floor, Old Main Building, Groote Schuur Hospital

Professor and Head:
AG Fieggen, BSc (Medicine) MBChB Cape Town MSc London MD Cape Town FCS SA

Emeritus Professors:
PC Bornman, MMedSurg FRCS Edinburgh FCS SA FRCS Glasgow
DM Dent, MBChB ChM Cape Town FCS SA FRCS UK FRCPs Glasgow (Hon)
JEJ Krige, MBChB MSc (Medicine) Cape Town FRCS Edinburgh FCS SA
J Terblanche, MBChB ChM Cape Town FCS SA FRCS UK FRCPs Glasgow FACS (Hon) FACP (Hon) FRCS UK (Hon) FRCSC (Hon) FRCS Edinburgh FMC SA FRCsI (Hon)

Emeritus Associate Professor:
JG Brink, MBChB Cape Town FC Cardio SA

Cardiothoracic Surgery (Chris Barnard Division of Cardiothoracic Surgery)

Groote Schuur Hospital; Red Cross Children’s Hospital; Cape Heart Centre, Health Sciences Campus

The Division of Cardiothoracic Surgery provides clinical cardiac and thoracic surgery services for the community of Cape Town and the Western Cape region at both Groote Schuur Hospital and Red Cross Children’s Hospital. In addition, this Division is the only academic unit that provides cardiac transplantation in South Africa. This Division also has an active laboratory research programme centering on the development of an ‘easy to implant’ synthetic heart valve for developing countries; myocardial regeneration, restenosis and angiogenesis in tissue engineering.

Chris Barnard Chair of Cardiothoracic Surgery and Head:
P Zilla, MD Vienna DMed Zurich PhD Cape Town PD Vienna FCS SA

Professor Full-time:
D Bezuidenhout, PhD US

Associate Professors Full-time:
N Davies, PhD Cape Town
J Scherman, MBChB Pret Dip (Occupational Medicine) Stell FC Cardio SA MMed Cape Town

Associate Professors Part-time:
A Linegar, MBChB Cape Town PhD UFS FC Cardio SA
J Hewitson, MBChB Cape Town FCS SA
JG Brink, MBChB Cape Town FC Cardio SA

Senior Lecturers Full-time:
A Brooks, MBChB Stell FCS SA
P Human, PhD Cape Town
C Ofoegbu, MBBS(IBADAN) FWACS FC Cardio SA MMed Cape Town
T Pennel, MBChB Stell MMed Cape Town FC Cardio SA PhD Cape Town
R Manganyi, MBChB Cape Town FC Cardio SA

Senior Lecturers Part-time:
L Moodley, MBBS India FC Cardio SA
J Rossouw, MBChB PhD Stell MMed Thorax Stell SA
Emergency Medicine

F51 Old Main Building, Groote Schuur Hospital, and Bellville Health Park, Karl Bremer Hospital

Professor and Head:
L Wallis, MBChB FRCSc (A&E) *Edinburgh* MD DIMCRCS Dip (Sport Medicine) *Glasgow* FRCS Ed FCEM UK FCEM SA FIFEM

Honorary Professor:
P Brysiewicz, BSocSc (Nursing) UKZN BA MCur PhD UKZN

Associate Professor:
P Hodkinson, MBChB *Witwatersrand* MPhil PhD *Cape Town* Dip (Primary Emergency Care) DA Dip (Obstetrics & Gynaecology) SA DTM&H *Witwatersrand*

Honorary Associate Professor:
S Bruijns, MBChB *Pret* MPhil PhD *Cape Town* Dip (Primary Emergency Care) SA FCEM UK FCEM SA

Senior Lecturers Full-time:
W Khan, MBChB *Witwatersrand* MMED *Cape Town* FCEM SA
W Jooste, MBChB BMedSci MMed *Stell* FCEM SA

Lecturers Full-time:
C Saunders, BScHons PhD *Cape Town*
W Stassen, BTEMC UJ MPhil PhD *Karolinska*

Junior Research Fellow:
S Rhambarose, BMedSciHons MMedSci PhD UKZN

Lecturers (Joint Staff):
B Cheema, MBBS BSc MRCPCH *London* DTM&H *Liverpool* MPhil *Cape Town*
P Cloete, MBChB *Pret* FCEM SA MMed *Cape Town*
K Cohen, MBChB MMed MPhil *Cape Town*
M De Man, MBChB PGDip (Family Medicine) *Stell* MMed *Cape Town* FCEM SA
S De Vries, MBChB *Cape Town* Dip (Primary Emergency Care) MPhil *Cape Town*
R Dickerson, MBChB *Witwatersrand* Dip (Primary Emergency Care) DA SA FCEM SA Cert (Critical Care) SA ATCL UK
K Evans, MBChB *Cape Town* FCEM SA MMed *Cape Town*
D Fredericks, MBChB *Cape Town* FCEM SA
H Geduld, MBChB MMed *Cape Town* Dip (Primary Emergency Care) FCEM SA
C Hendrikse, MBChB *Stell* FCEM SA MMed *Cape Town*
A Kropman, MBChB *Cape Town* Dip (FEC) FCEM SA
W Smith, BSc MBChB *Cape Town* EMDM FCEM SA
C van Koningsbruggen, MBChB UKZN Dip (Primary Emergency Care) SA MMed *Cape Town* FCEM SA
P Xafis, MBChB *Witwatersrand* MMed *Stell* FCEM SA

Lecturer Part Time:
C Cunningham, BSocSc (Nursing) UFS BTech AdvDip (Management) MBA Sunderland

Honorary Lecturers:
J Fleming, MBChB *Witwatersrand* MPhil *Cape Town*
C Groenewald, MBChB UFS Dip (Primary Emergency Care) FCEM SA MMed *Cape Town*
H Lamprecht, MBChB *Stell* DAnaes London FCEM UK FRCPI Ireland
G Lemke, MBChB *UFS* Dip (Primary Emergency Care) FCEM SA MMed *Stell*
A Oosthuizen, MBChB *Stell* Dip (Primary Emergency Care) FCEM SA MMed *Cape Town*
A Parker, MBChB FCEM SA MMed *Cape Town*
H Tuffin, MBChB *Cape Town*
C Wylie, BTech *DUT* MPhil *Cape Town*

**Honorary Research Affiliate/Associate:**
E Callachan, NDip AECT UJ MHealSc Otago PhD *Cape Town*
E Dippenaar, NDEMC BTEMC MScMed PhD *Cape Town*

**General Surgery**
*J-Floor, Old Main Building, Groote Schuur Hospital*

**Professor and Head:**
E Muller, MBChB *Pret* MMed *Cape Town* MRCS FCS

**Professors:**
P Navsaria, MBChB MMed *Cape Town* FCS SA
E Jonas, MBChB MMed FCS SA PhD

**Emeritus Professors:**
PC Bornman, MMedSurg FRCS Ed FCS SA FRCS *Glasgow*
DM Dent, MBChB ChM *Cape Town* FCS SA FRCS UK FRCPS *Glasgow* (Hon)
JEJ Krieger, MBChB MSc *Cape Town* FRCS *Edinburgh* FCS SA
J Terblanche, MBChB ChM *Cape Town* FCS SA FRCS UK FRCPS *Glasgow* FAC (Hon) FACP (Hon) FRCSC (Hon) FRCS *Edinburgh* FMC SA FRCSI (Hon)
D Kahn, MBChB CRM FCS SA

**Associate Professors:**
AJ Nicol, (Head: Trauma Unit) MBChB *Cape Town* FCS SA
E Panieri, (Head: Oncology, Endocrinology) MBChB MMed *Cape Town* FCS SA
L Cairncross, MBChB *Cape Town* FCS SA

**Adjunct Professor:**
RJ Baigrie, BSc MD *Cape Town* FRCS UK

**Senior Lecturers Full-time:**
M Bernon, MBBCh *Witwatersrand* FCS SA Cert (Gastro)
ABT Boutall, MBChB *Stell* FCS SA Cert (Gastro)
H Bougard, MBChB
S Burmeister, MBChB *Cape Town* FCS SA Cert (Gastro)
G Chinnery, MBChB *Witwatersrand* MMed FCS SA Cert (Gastro)
JM du Toit, MBChB *Stell* MMed *Cape Town* FCS SA FEBS
S Edu, Dip (Medicine) *Romania* FCS SA
F Gool, MBChB DA SA FCS SA CertGastro
JH Klopper, MBChB *Pret* MMed Surg *UFS* Cum laude
JC Kloppers, MBChB *Stell* Dip (Primary Emergency Care) FCS SA MRCS FRCS GenSurg *Edinburgh*
F Malherbe, MBChB FCS SA
F Noor, MBBCH *Witwatersrand* FCS SA NG
NG Naidoo, (Head: Vascular Unit) MBChB *UKZN* FCS SA
S Rayamajhi, MBChB MMed *Cape Town*
DA Thomson, MBChB *UKZN* FCS SA MMed *Cape Town*
C Warden, MBChB *Cape Town* MMed FCS SA
J Plaskett, MBChB MMed FCS SA
L Bertels, MBChB MMed FCS SA

**Senior Lecturers Part-time:**
M Forlee, MBChB FCS SA Cert (Vascular Surgery)
B Natha, MBChB FCS SA Cert (Vascular Surgery)
JA Tunnnciliffe, MBChB Cape Town FCS SA
ME Dalwai, MBChB FCS SA Cert (Surgical Gastroenterology)

**Neurosurgery**
_H53, Old Main Building, Groote Schuur Hospital_

**Helen & Morris Mauerberger Professor and Head:**
AG Fieggen, BSc (Medicine) MBChB Cape Town MSc London MD Cape Town FCS SA

**Professors:**
AA Figaji, MBChB MMed PhD Cape Town FNeurosurg SA
PL Semple, MBChB MMed PhD Cape Town FCS SA

**Honorary Professor:**
MJA Wood, MBChB Cape Town DPhil Oxon

**Associate Professors:**
DEJ Le Feuvre, MBChB MMed Cape Town MSc Paris/Mahidol FCS SA
AG Taylor, MBBCh Witwatersrand MMed Cape Town MSc Paris/Mahidol FCS SA

**Senior Lecturers:**
JMN Enslin, BPhysT Pret MBChB Pret MMeD Cape Town FNeurosurg SA
SJ Röthemeyer, MBBCh Witwatersrand FCNeuroSurg SA

**Senior Lecturers Part-time:**
ND Fisher-Jeffes, MBChB Stell FCS SA
CF Kieck, MBChB Stell MD Cape Town FCS SA
RL Melvill, MBChB Cape Town FCS SA
SA Parker, MBChB Cape Town FCS SA
C Thompson, MBChB MMed Cape Town FCNeuroSurg SADG Welsh MBChB Cape Town FRCS London FCS SA
DG Welsh, MBChB Cape Town FRCS London FCS SA
GA White, MBChB Cape Town FCS SA

**Lecturer:**
N Mankahla, MBChB UKZN FCS SA

**Senior Research Officer:**
NG Langerak, BSc (Physiotherapy) Utrecht MSc Nijmegen PhD Cape Town

**Research Officer:**
UK Rohlwink, BA Bosphorus MSc (Medicine) PhD Cape Town

**Honorary Research Associate:**
R Balchin, BSocScHons MA PhD Cape Town
Ophthalmology

H52, Old Main Building, Groote Schuur Hospital

Morris Mauzerberger Professor of Ophthalmology and Head:
N Du Toit, MBChB MMed PhD Cape Town Dip (Ophthalmology) SA FRCS Edinburgh FCOphth SA

Emeritus Professor:
A Murray, MBChB Witwatersrand FRCS Edinburgh FRCOphth

Senior Lecturers Full-time:
J Rice, MBChB Witwatersrand FCOphth SA MPH
J Steffen, MBChB Stell FCOphth SA MMed
C Tinley, MBChB Cape Town FRCOphth
N Freeman, MBChB Stell FCOphth SA MMed
S Mustak, MBChB MMed Cape Town Dip (Ophthalmology) SA FCOphth SA

Senior Lecturers 5/8:
J de Villiers, MBChB Witwatersrand FCOphth SA
T van der Lecq, MBChB MMed Pret FCOphth SA

Director Community Eye Health Programme:
D Minnies, NHDMT (Haematology) SA MPH Cape Town

Senior Lecturers Part-time:
E Albrecht, MBChB Stell FCOphth SA
R Grötte, MB BS Newcastle FRCS Edinburgh DO RCP London RCS UK
K Suttle, MBChB Cape Town FCS (Ophthalmology) SA
H van Velden, MBChB Stell FCOphth SA
M Lenake, MBChB Witwatersrand FCOphth SA MMed
D Steven, MBChB Franzco
J van der Merwe, MBChB Stell MMed Dip (Ophthalmology) SA FCOphth SA
L Heydernrych, MBChB FCOphth SA MMed
D McClunan, MBChB Stell Dip (Ophthalmology) SA FCOphth SA MMed

Orthopaedic Surgery

H49 Old Main Building, Groote Schuur Hospital

Pieter Moll & Nuffield Professor of Orthopaedic Surgery and Head:
R Dunn, MBChB MMed Cape Town FCSOrth SA

Associate Professors:
M Held, Med Cert Heidelberg MD Munich MMed PhD Cape Town FC Orth SA
S Maqungo, MBChB Natal FCSOrth SA
S Roche, MBChB Cape Town LMCC Canada FCSOrth SA
M Solomons, MBChB Cape Town FCSOrth SA

Honorary Associate Professor:
BC Vrettos, MBChB Zimbabwe FRCS England MMed Cape Town FCSOrth SA

Adjunct Professors:
G Grobler, MBChB MMed Cape Town FRCS Edinburgh FCS (Orth) SA
WM van der Merwe, MBChB UFS Social Studies Oxon BMedScHons Cape Town
DEPARTMENTS IN THE FACULTY

Senior Lecturers Full-time:
S Dix-Peek, MBChB Witwatersrand FCSOrth SA MMed Cape Town
P Hardecke, MBChB Stell MMed FCOth SA
A Horn, MBChB Pret MMed Cape Town FCOth SA
J Kauta, MBChB MMed Cape Town
N Kruger, MBChB Cape Town FCSOrth SA
M Laubscher, MBChB Dip (Primary Emergency Care) FCOth SA MMed Cape Town
F Louw, MBChB Stell MMed Cape Town FCS (Orth) SA
G McCollum, MBChB MMed Cape Town Dip (Primary Emergency Care) FCSOrth SA
T Munting, MBChB Cape Town MMed FCSOrtho SA
M Nortje, MBChB MMed Cape Town FCOth SA Dip (Primary Emergency Care) SA
P Rowe, MBChB Witwatersrand FCSOrth SA
S Swanepoel, MBChB MMed Cape Town FC Ortho SA

Senior Lecturers Part-time:
B Dower, MBChB Cape Town FCSOrth SA
JP Du Plessis, MBChB Cape Town MMed Cape Town FCSOrtho SA
Y Hassan, MBChB MPhil Cape Town FCOth SA
I Koller, MBChB Pret FC Orth SA MMed Cape Town
T Hilton, MBChB MMed Cape Town FCSOrth SA
M Maree, MBChB MMed Cape Town FCSOrth SA
B Gray, FCOth SA HDip (Orth) SA MBChB Pret
D McGuire, MBChB Witwatersrand MMed Cape Town FCOth SA

Honorary Senior Lecturers:
B Bernstein, MBChB Witwatersrand FCSOrth SA
D Engela, MBChB Pret FCSOrth SA

Otorhinolaryngology
H53, Old Main Building, and Ward F8, Groote Schuur Hospital, Red Cross War Memorial Children’s Hospital and New Somerset Hospital

Leon Goldman Professor of Otorhinolaryngology and Head:
JJ Fagan, MBChB MMed Cape Town FCS SA

Senior Lecturers Full-time:
V Pretorius, MBChB Stell FCSOtol SA
T Harris, MBChB Cape Town FCSOtol SA
DE Lubbe, MBChB Stell FCSOtol SA
J McQuire, MBChB FCSOtol SA
S Peer, MBChB FCSOtol SA

Lecturer Five-eighths:
E Meyer, MBChB Pret FCSOtol SA

Lecturers Part-time:
MD Broodryk, MBChB Stell FCSOtol SA
L Nel, MBChB Pret FCS SA
PS Traub, MBChB Witwatersrand FCSOtol SA
MJRR Vanlierde, MBChB Cape Town FCSOtol SA
A van Lierop, MBChB Stell FCSOtol SA
Paediatric Surgery
Institute of Child Health, Red Cross War Memorial Children’s Hospital, Rondebosch

Charles F M Saint Professor of Paediatric Surgery and Head:
A Numanoglu, MBChB Turkey FCS SA

Professor:
AB van As, MBChB Netherlands FCS SA PhD Cape Town MBA SA

Associate Professor:
S Cox, MBChB Cape Town FCS SA Cert (Paediatric Surgery) SA

Emeritus Professors Part-Time
AJW Millar, MBChB Cape Town FRCS UK FRCS Edinburgh FRACS DCH (RCP&Seng) FCS SA
H Rode, MBChB Pret MMed Surg FRCS Edinburgh FCS SA

Adjunct Professor Part-time:
RA Brown, MBChB Cape Town MPhil Stell DCH SA FRCS Edinburgh FCSSurg SA

Senior Lecturers:
M Arnold, MBChB Pret DCH SA FC Paed Surg SA MMed Stell
D von Delft, MBChB UFS MRCS Edinburgh FC Paed Surg
G Dos Passos, MBChB Witwatersrand FC Plast Surg SA MMed Cape Town

Child Accident Prevention Foundation of Southern Africa (Childsafe):
P Nyakaza, BA UWC

Senior Medical Technologist:
J Raad, D (Medical Technology) UJ

Surgical Skills Training Centre:
C van Geems

Plastic, Reconstructive and Maxillo-facial Surgery
F26, New Groote Schuur Hospital

Associate Professor and Head:
DA Hudson, MBChB MMed Cape Town FCS SA FRCS Edinburgh FACS

Consultants Full-time:
KG Adams, MBChB Cape Town FC Plast (Plastic & Reconstructive Surgery) SA
S Adams, MBChB Cape Town FC Plast (Plastic & Reconstructive Surgery) SA

Senior Lecturers Part-time:
G Dos Passos, MBChB Witwatersrand FC Plast Surg SA MMed Cape Town
DB Fernandes, MBChB FRCS Edinburgh
S Geldenhuys, MBChB FCS SA
A Landau, MBChB Cape Town FCS SA
S Moodley, MBChB FCS SA MMed Cape Town
C Pienaar, MBChB UOFS FCS SA
JE van Zyl, MBChB Stell FCS SA
M van der Velde, MBChB FCS SA
Part-time Dental Surgeon and Acting Head of Oral and Dental Surgery:
GJ Hein, BChD MChD UWC

Dentists:
J Thompson

Maxillo-facial Part-time consultants:
S Aniruth, BChD UWC
S Singh, BChD UWC BSc UKZN

**Surgical Gastroenterology**
_E23, New Main Building, Groote Schuur Hospital_

Professor and Head:
E Jonas, MBChB MMed FCS S4 PhD

Associate Professor and Head Colorectal Clinic:
PA Goldberg, MBChB Cape Town FCS SA

Senior Lecturers:
M Bernon, MBBCh Witwatersrand FCS S4 Cert (Gastroenterology)
ABT Boutall, MBBCh Stell FCS S4 Cert (Gastroenterology)
S Burmeister, MBChB Cape Town FCS S4 Cert (Gastroenterology)
G Chinnery, MBChB Witwatersrand MMed FCS S4 Cert (Gastroenterology)
C Warden, MBChB Cape Town MMed FCS S4

**Urology**
_E26, New Groote Schuur Hospital_

Associate Professor and Head:
JM Lazarus, MBChB Cape Town FCSUrol S4

Emeritus Associate Professor:
RD Barnes, MBChB Cape Town FCSUrol S4

Senior Lecturers Full-time:
J Howlett, FC Urol S4 MMed Urol UKZN MBChB Cape Town
L Kaestner, MBChB Stell FCSUrol S4 MMed Cape Town

Senior Lecturers Part-time:
TM Borchers, MBChB Cape Town FCSUrol S4
MJ Dewar, MBChB Cape Town FCSUrol S4 MMed Cape Town
JH Wicht, MBChB Stell FCSUrol S4 MMed Cape Town
CE De Wet, MBChB UFS FCSUrol S4 MMed Cape Town
CHM2001S  SPECIAL STUDY MODULE
16 NQF credits at HEQSF level 6
Convener: Dr V Zweigenthal
Course entry requirements: All first year MBChB courses.
Objective: The Special Study Module (SSM) is designed to give students an opportunity for independent supervised work in an area of interest and develop skills for rigorous scientific medical practice.
Course outline:
The Special Study Module (SSM) comprises a compulsory four-week period of supervised study, designed to complement the core curriculum and to broaden the learning experience. During this experience, each student undertakes a project designed to give opportunities to explore particular interests and develop intellectual and practical skills in a selected subject area. Each student selects one module from a list of modules offered by different Health Sciences departments. SSMs cover a wide range of topics, including basic medical science, pathology, clinical science, behavioural science, epidemiology, and community health. An SSM may take the form of data interpretation, a literature review, a patient record review, a survey, a practical project (language/music/other) or a laboratory-based study. To encourage depth of learning, students work individually or in small groups, and with a designated supervisor. Where human participants are the subject of the SSM, students are required to abide by the ethical requirement obtained for the project, adopt an ethical approach and obtain informed, signed consent from research participants.
DP requirements: Attendance of the library training session. Attendance and completion of specified learning objectives decided upon by the student and supervisor at the start of the SSM.
Assessment: Assessment in SSMs is based on a referenced, written report of 2500 – 3000 words, relating to the field of work and subject to a formative process throughout the SSM. Performance is marked using a criterion-based marking schedule, which is described in the SSM information booklet. A random selection of all SSM reports (and those with borderline or very high or low marks), is double-marked by the convener and a second marker (either another member of staff in that unit, and/or the overall convener, or the external examiner). The SSM Moderating Board decides the final mark. Students who fail the SSM are required to re-submit an improved written report at the end of the year.

CHM5003W  SURGERY
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5103X, CHM5203X, CHM5303X, CHM5403X, CHM5503X
40 NQF credits at HEQSF level 8
Convener: Dr S Burmeister and Associate Professor DA Hudson
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
The general surgery component is taught over eight weeks at Groote Schuur Hospital within the units dealing with acute care and with hepatobiliary, upper gastro-intestinal vascular, colorectal, breast and endocrine medicine units. Daily seminars present common important clinical presentations and their initial management. Students attend regular interactive, patient-based tutorials where they develop and enhance clinical proficiency and diagnostic skills. They are exposed to theatre and procedural cases as an introduction to interventional management and produce a portfolio of at least six cases as a starting point for case-/problem-based learning. Core curriculum topics are divided into “must know” (detailed knowledge); and “must recognise” (awareness of topic and its inclusion in a differential diagnosis). Core learning outcomes include recognition of urgent, life-threatening clinical scenarios; ability to recognise common surgical diseases and less common but dangerous problems, initiate primary or emergency care as appropriate, initiate appropriate investigation(s), identify conditions requiring specialised services and understand therapeutic procedures in surgical conditions. In plastic surgery, core learning outcomes comprise knowledge of the important conditions requiring treatment by a plastic surgeon.
DEPARTMENTS IN THE FACULTY

(e.g. skin cover, grafts and flaps, trauma, cosmetic surgery, burns) and skills of examination, initiating treatment and selecting patients for referral to a specialist centre.

**DP requirements:** Attendance of a minimum of 37 out of the 44 seminars; completion of six portfolio cases. Attendance is required at all tutorials. A student who for any reason is or has been unable to attend an activity or submit a requirement by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Approved absence beyond a certain maximum may require the student to repeat the course.

**Assessment:** Students are provided with continuous feedback from their tutors informally during their block. This is not recorded, and does not form part in the final mark. The final mark is made up of an end-of-block MCQ (33,3%); end-of-block clinically-based MCQ (33,3%); and an end-of-block oral and portfolio assessment (33,3%). The general surgery component of the course must be passed with 50%. Both tutorials and witnessed procedures are signed off in a logbook, which may be reviewed during the end-of-block assessment. A recommendation will be made that students who fail the course with 48% or 49% be granted a supplementary examination.

**CHM5004H TRAUMA**

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5104X, CHM5204X, CHM5304X, CHM5404X, CHM5504X

10 NQF credits at HEQSF level 8; Lectures (12), Skills Laboratory modules (suturing and intercostal simulation insertion) (2), on-site calls (3), on-site bedside teaching, and on-site equipment tutorial (1).

**Convener:** S Edu, Professor P Navsaria and Associate Professor AJ Nicol

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Objective:** Build knowledge and basic skills necessary to manage common trauma problems.

**Course outline:** The four-week block, which is shared with Orthopaedic Surgery, comprises a series of lectures incorporating the “Advanced Trauma Life Support” (ATLS) format. Two surgical skills courses are included to provide instruction with wound-suturing, pleural drain insertion, intravenous access and airway management. Students are rostered for duties in the Trauma Centre at Groote Schuur Hospital in order to gain first-hand experience in managing trauma patients under the supervision of the on-call surgical registrars and consultants. Core learning outcomes include the initial assessment and management of the trauma patient; an approach to specific injuries; skills in resuscitation and basic life-saving techniques; application of splints and plasters; and debridement and suturing of wounds. A core curriculum has been divided into; “must know”, “must recognise”, “may hear or see” and “must be aware of.”

**Lecture times:** Wednesday and Thursday 09h30 – 11h30, and Fridays 10h00 – 12h00.

**DP requirements:** Full attendance for lectures and clinical skills courses. A student who for any reason is or has been unable to attend an activity must supply reasons to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. The maximum amount a time a student may miss with permission before becoming ineligible to write the examination is one week (four lectures and one clinical skills course).

**Assessment:** The end-of-block examination comprises an MCQ (80%) and an OSCE (20%). A student who fails the course with 48% of 49% may be required by the Faculty Examinations Committee to undergo additional training time before writing a supplementary examination.
CHM5004W  TRAUMA FOR EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5104X, CHM5204X, CHM5304X, CHM5404X, CHM5504X

10 NQF credits at HEQSF level 8

Convener: Professor P Navsaria, Associate Professor AJ Nicol and S Edu

Course entry requirements: None

Course outline:
Four week block, shared with orthopaedics. Formal lectures on Wednesdays and Thursdays and Clinical Skills courses on Fridays. The students are required to do after hours call in C14 and complete a logbook of essential procedures. Attendance is compulsory.

DP requirements: Full attendance for lectures, clinical skills courses, and calls. A student who for any reason is or has been unable to attend an activity must supply reasons to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. The maximum amount a time a student may miss with permission before becoming ineligible to write the examination is one week (four lectures and one clinical skills course, one call). Completed logbook.

Assessment: The end-of-block examination comprises an MCQ (50%) and an OSCE (50%). A student who fails the course with 48% of 49% may be required by the Faculty Examinations Committee to undergo additional training time before writing a supplementary examination.

CHM5005H  ORTHOPAEDIC SURGERY

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5105X, CHM5205X, CHM5305X, CHM5405X, CHM5505X

10 NQF credits at HEQSF level 8; 30 tutorials, 14 practicals, one course assignment.

Convener: Dr N Kruger

Course entry requirements: Successful completion of all courses within the preceding academic year.

Objective: Competency in basic orthopaedic knowledge and skills at a general practitioner level.

Course outline:
This course aims to cover the common entities in adult and paediatric orthopaedic surgery. Core learning outcomes include knowledge of common musculoskeletal trauma and pathological conditions; skills in examination of the musculoskeletal trauma and pathological conditions, application of treatments and carrying out procedures specific to the specialty; x-ray assessment; and professional behaviour appropriate to clinical practice. The curriculum has been organised into core clinical problems students are expected to be able to evaluate clinically and core clinical topics students are expected to be knowledgeable about. The topics have been further stratified into “must know” (have a detailed knowledge of the clinical presentation, laboratory investigation and management of these important, common conditions); “must recognise” (have a basic understanding of the clinical features suggestive of this diagnosis, appropriate investigations that would assist in making the diagnosis and a limited understanding of the principles of treatment of these important conditions, all of which have serious implications if missed); “must be aware of” (the student should be aware of the condition but is not expected to accurately diagnose or manage the condition) and “may hear of or see”(rare conditions that the student should refer for specialist opinion and management).

Lecture times: 08h00 daily.

DP requirements: Full and punctual attendance of all ward rounds, clinics and tutorials as per timetable. Contact with allocated registrar as rostered. Completion of all requisite coursework/clinical work by the due dates. A student who for any reason is or has been unable to meet the above requirements by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Approved absence beyond a certain maximum will require the student to repeat the course. A student who fails to meet the following by the due dates and without a valid and approved medical certificate will not be permitted to write the end-of-block examination: Completion of the practical log sheet with skills
signed off by registrar. Clinical Video Production submitted by the last Thursday of the rotation at 15h00.

**Assessment:** The end-of-course examination consists of (a) VULA computer-based MCQ 50 question SBA (40%); an OSCE (40%); and a video submission (20%).

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**CHM5005W**  **ORTHOPAEDIC SURGERY FOR EXTERNAL CREDIT**  
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5105X, CHM5205X, CHM5305X, CHM5405X, CHM5505X

10 NQF credits at HEQSF level 8

**Convener:** Dr N Kruger

**Course outline:**

A four week Orthopaedic block comprising of tutorials, attendance in OPD, theatre and teaching/working ward rounds. Course handbook will have selected "must know" reading material selected, Core knowledge template for medical students will be abbreviated to suit this course as bare essential knowledge. Online course material available on VULA along with clinical examination videos. Practical examination skills will be the focus of the course and POP skills, clinical examination and basic orthopaedic skills will be reinforced. The focus of the course will be on orthopaedic emergencies.

**DP requirements:** Full and punctual attendance of all ward rounds, clinics and tutorials as per timetable. Contact with allocated registrar as rostered. Completion of all requisite coursework/clinical work by the due dates. A student who for any reason is or has been unable to meet the above requirements by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Approved absence beyond a certain maximum will require the student to repeat the course. A student who fails to meet the following by the due dates and without a valid and approved medical certificate will not be permitted to write the end-of-block examination: Completion of the practical log sheet with skills signed off by registrar.

**Assessment:** The end-of-course examination consists of a VULA computer-based MCQ 50 question SBA (20%); an OSCE of 6 stations (80%).

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**CHM5006W**  **SURGERY EXTERNAL CREDIT**

[Note: A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5106X, CHM5206X, CHM5306X, CHM5406X, CHM5506X. This course is taken by South African students studying towards a Cuban medical degree.]

41 NQF credits at HEQSF level 8

**Convener:** Dr S Burmeister

**Course entry requirements:** Fourth year MBChB courses.

**Course outline:**

The general surgery component is taught over eight weeks at Groote Schuur Hospital within units dealing with acute care and hepatobiliary, upper gastro-intestinal vascular, colorectal, breast and endocrine medicine. Daily seminars present common important clinical presentations and their initial management. Students attend regular interactive, patient-based tutorials to develop and enhance clinical proficiency and diagnostic skills. They are exposed to theatre and procedural cases to introduce interventional management and encouraged empathy and communication competence. They produce a portfolio of at least six cases as a starting point for case-/problem-based learning. Core curriculum topics are divided into “must know” (detailed knowledge); and “must recognise” (awareness of the topic and its inclusion in a differential diagnosis). Core learning outcomes include recognition of urgent and life-threatening clinical scenarios; ability to recognise common surgical diseases and less common but dangerous problems, initiate primary or emergency care as appropriate, initiate appropriate investigation(s), identify conditions requiring specialised services and to understand therapeutic procedures in surgical conditions. In plastic surgery, core learning outcomes comprise knowledge of the important conditions requiring treatment by a plastic surgeon.
(e.g. skin cover, grafts and flaps, trauma, burns); and skills of examination, initiating treatment and in selecting patients for referral to specialist centres.

**DP requirements:** Students are expected to attend a minimum of 33 out of the 41 seminars. This and the six portfolio cases represent the DP requirements. Tutorials are however considered compulsory. Both tutorials and witnessed procedures are signed off in a logbook, which may be reviewed during the end-of-block assessment.

**Assessment:** Students are provided with continuous feedback from their tutors informally during their block. This is not recorded, and does not form part in the final promotion mark. The final mark is made up of an end-of-block written paper (33.3%), end-of-block clinically-based MCQ (33.3%), end-of-block oral and portfolio assessment (33.3%). The general surgery component of the course must be passed with 50%.

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**CHM5007W NEUROLOGY AND NEUROSURGERY**

_A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5107X, CHM5207X, CHM5307X, CHM5407X, CHM5507X_

20 NQF credits at HEQSF level 8

**Convener:** Dr LM Tucker and Associate Professor DEJ le Feuvre

**Course entry requirements:** Successful completion of all courses within the preceding academic year.

**Objective:** The objective of this course is to give students an understanding of the presentation, assessment, investigation and management of common disorders of the nervous system.

**Course outline:**

This course aims to cover common entities in adult neurosurgery in a mixed rotation where teaching takes place in both disciplines. In this way, the student develops an understanding of how patients with neurological disorders present. Core learning outcomes include knowledge of common neurological diseases and conditions, skill in examining the nervous system, in applying treatments and carrying out procedures specific to the speciality and in radiologic assessment, as well as professional behaviour appropriate to clinical practice. The core curriculum comprises core clinical problems that students are able to evaluate clinically and core clinical topics they are expected to know. The latter includes content the student “must know” (detailed knowledge of the clinical presentation, laboratory investigation and management of important, common conditions); “must recognise” (a basic understanding of the clinical features suggestive of this diagnosis, and appropriate investigations that assist in making the diagnosis and understanding the principles of treatment of these important conditions, all of which have serious implications if missed); and “must be aware of” (be aware of but not expected to accurately diagnose or manage). Students become familiar with rare conditions that they should refer for specialist opinion and management.

**Lecture times:** Tutorials and bedside teaching are scheduled every day, with exposure to other clinical environments such as OPD, ICU, theatre and cathlab. Time is also allocated for self-directed learning and students are expected to do at least two after-hours calls with a neurosurgery registrar.

**DP requirements:** Students are expected to attend all scheduled teaching activities and have at least 75% attendance where a register is taken.

**Assessment:** Formative assessment occurs in the block through feedback from clinical teachers. The final marks are made up of: (a) a neurosurgery case report (15%); (b) a neurology in-course assessment (15%); and (c) an end-of-block MCQ examination (70%).
CHM5008W  OPHTHALMOLOGY

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5108X, CHM5208X, CHM5308X, CHM5408X, CHM5508X

10 NQF credits at HEQSF level 8; 10 tutorials.

Convener: Professor N du Toit

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
This course covers common entities in adult and paediatric ophthalmology. Students undergo experiential learning in the outpatient clinics at Groote Schuur Hospital over a 10-day period. Core learning outcomes are categorised into core knowledge; skills, including clinical, clinical reasoning and procedural skills; and professional behaviour and personal attributes. The core curriculum comprises core clinical problems which students are expected to be able to evaluate clinically and core clinical topics students are expected to be knowledgeable about. Clinical topics are stratified into “must know” (have a detailed knowledge of the clinical presentation, limited management and appropriate referral); and “must recognise” (have a basic understanding of the clinical features suggestive of this diagnosis, take appropriate steps in the treatment of the condition and an understanding which needs to be referred to an ophthalmologist). As key outcomes, students should be able to diagnose and manage common, primary care eye problems, recognise and initiate the treatment of emergencies and know when to refer. Students’ mastering of a problem-orientated approach and their plan of management for every patient manifest in the necessary 30 cases that form part of each student’s portfolio.

DP requirements: Full attendance of all course requirements, including clinical and tutorial sessions, completion of portfolio cases, and satisfactory completion of practice examination skills by the due dates. Any student missing a session without a valid and approved reason will not be allowed to do the clinical and portfolio exam at the end of the block. If missed due to illness, a medical certificate will be required, but no more than two clinic sessions may be missed. If this happens, the student will not be permitted to sit the end-of-course clinical and portfolio examinations. Such student will be required to attend a supplementary one-week clinical attachment either in the July vacation (for first semester defaulters) or in the December vacation (for second semester defaulters) before the clinical and portfolio exams can be done. Any students not having the required number of cases to present at the portfolio exam will fail the end-of-block assessment and will not be allowed to do the clinical examination. The student will be required to attend a supplementary one week clinical attachment either in the July vacation or in the December vacation to complete their portfolios before the examination can be done. If this is not logistically possible the student may need to repeat the course.

Assessment: The final mark is made up of an in-course assessment (clinical and portfolio exams) (50%) and an end-of-block slide show/MCQ computer-based exam (50%). A subminimum applies in respect of the clinical exam. Should any student fail the clinical exam or obtain less than 50% as an overall final ophthalmology mark a recommendation will be made to the Faculty Examinations Committee that the student spend an extra week in ophthalmology at a time to be decided, before undergoing a supplementary examination.
CHM5009W  OTORHINOLARYNGOLOGY

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5109X, CHM5209X, CHM5309X, CHM5409X, CHM5509X

10 NQF credits at HEQSF level 8

Convener: Dr S Peer and Dr J McGuire

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
This course aims to cover the common entities in adult and paediatric ear, nose and throat (ENT) diseases. Students undergo experiential learning in ENT wards, outpatient clinics and theatres, they also attend afternoon lectures and watch DVDs. The core curriculum comprises content categorised as “must know” (have a detailed knowledge of the clinical presentation, assessment and management of these important, common conditions); and “must recognise” (recognise features suggestive of these conditions, have knowledge of appropriate examination and investigation to assist in confirming/excluding the conditions and have an understanding of the principles of treatment of the conditions which may have serious implications if missed). Students will become familiar with the spectrum of diseases/disorders managed by an ENT division, the examination techniques, investigations and management methods employed to refer and counsel patients appropriately.

DP requirements: The following are required: attending at least three clinic sessions, attending one theatre session, attending at least six tutorials (three of which are compulsory afternoon tutorials), attending the problem-based learning session and achieving competency in the six clinical skills. These need to be signed off in the student’s attendance register at the time of contact and the register handed in at the time of the end-of-block examination.

Assessment: Assessment comprises an end-of-block examination (50%), an online learning and appraisal assessment (30%) and a clinical skills assessment (20%).

CHM5010W  UROLOGY

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5110X, CHM5210X, CHM5310X, CHM5410X, CHM5510X

10 NQF credits at HEQSF level 8

Convener: Associate Professor JM Lazarus

Course entry requirements: Successful completion of all courses within the preceding academic year.

Course outline:
The Urology apprenticeship lasts two weeks and includes video tutorials and attendance and work at urology wards, clinics and in theatre. The curriculum has been organised into core clinical problems students are expected to be able to evaluate clinically and core clinical topics students are expected to be knowledgeable about. The course work is made up of the video tutorials and the textbook, “A handbook of Urology” which is available at Ward E26.

Lecture times: Activities start daily at 07h15.

DP requirements: Full attendance and completion of all requisite coursework/clinical work. A student who for any reason is or has been unable to meet the above requirements by the due date must supply a reason to the convener, who has the discretion to decide whether the reason is adequate to avoid being given a DPR. Activities will need to be made up where required. If this is not possible, the student may have to repeat all or a portion of the course.

Assessment: The final mark is made up of a case report. This comprises a case report (20%) a logbook/ward performance (30%) and an end-of-block MCQ examination (50%).
CHM5011W  SURGERY FOR EXTERNAL CREDIT
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM5211X, CHM5311X, CHM5411X, CHM5511X
19 NQF credits at HEQSF level 8
Convener: Dr S Burmeister
Course outline:
The course incorporates a hands-on, practical, four-week rotation during which students implement the clinical and management components of their previous training. The course consolidates and refines clinical examination, diagnosis and management of the major symptom complexes in surgery. Students are placed within a secondary level unit based at one of Victoria, Mitchell’s Plain, Somerset or Groote Schuur Hospitals where it is felt they will have greater exposure to common general surgical conditions. They are involved in all aspects of their units’ activities, including ward rounds, patient management and academic activities. The differential diagnosis and basic and specialised investigations are emphasised in each clinical situation. Students present their patients on the ward rounds, at firm meetings and the combined x-ray conferences. They accompany their patients to interventional procedures and present at least two cases per week to attending consultants, this is signed off in a logbook. Students produce a portfolio of at least six cases which provides a starting point for case / problem based learning. Additional weekly interactive tutorials and seminars by consultant staff review core theoretical knowledge. Students keep a logbook documenting their presentation of cases to consultants, and this may be reviewed during at the end-of-block assessment.

DP requirements: Completion of the six portfolio cases and a completed logbook of eight presented cases comprise the DP for the course. However, full attendance and participation in unit is considered compulsory.
Assessment: The end-of-block assessment comprises a clinical, scenario-based and portfolio oral assessment (50%); a patient-based oral examination (50%);

CHM6000W  SURGERY (INCLUDING ALLIED DISCIPLINES)
A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM6100X, CHM6200X, CHM6300X, CHM6400X, CHM6500X
41 NQF credits at HEQSF level 8
Convener: Dr S Burmeister
Course entry requirements: Successful completion of all courses within the preceding academic year.
Course outline:
Final year Surgery incorporates a hands-on, practical, four-week rotation during which student interns implement the clinical and management components of their previous training. The course consolidates and refines clinical examination, diagnosis and management of the major symptom complexes in surgery. Student interns are placed within one of the secondary level units based at Victoria, Mitchell’s Plain, Somerset and Groote Schuur Hospitals where they have greater exposure to common general surgical conditions. They are involved in all aspects of their units’ activities, including ward rounds, patient management and academic activities. The differential diagnosis and basic and specialised investigations are emphasised in each clinical situation. Students present their patients on the ward rounds, at firm meetings and the combined x-ray conferences. They accompany their patients to interventional procedures and present at least two cases per week to attending consultants, this is signed off in a logbook. Students produce a portfolio of at least six cases which provides a starting point for case / problem based learning. Additional weekly interactive tutorials and seminars by consultant staff review core theoretical knowledge. Students keep a logbook documenting their presentation of cases to consultants, and this may be reviewed at the end-of-block assessment.

DP requirements: Completion of the six portfolio cases and a completed logbook of eight presented cases comprise the DP for the course. Full attendance and participation in unit are considered compulsory.
Assessment: The end-of-block assessment comprises a clinical, scenario-based and oral assessment (25%); a patient-based oral examination (25%); a computerised, clinically-based MCQ (25%); and a theoretically-based MCQ (25%). A supplementary examination will be recommended for students who fail the course with 48% or 49% (subject to supplementary examination guidelines).

CHM6020W SURGERY EXTERNAL CREDIT

A student will be registered for one of the following equivalent courses, to be determined by the group that the student is allocated to: CHM6120X, CHM6220X, CHM6320X, CHM6420X, CHM6520X

19 NQF credits at HEQSF level 8

Convener: Dr S Burmeister

Course entry requirements: Fifth year MBChB courses.

Course outline:

Final year Surgery incorporates a hands-on, practical, two-week rotation during which student interns implement the clinical and management components of their previous training. The course consolidates and refines clinical examination, diagnosis and management of the major symptom complexes in surgery. Student interns are placed within a secondary level unit based at Victoria, Mitchell’s Plain, Somerset and Groote Schuur Hospitals where it is felt they will have greater exposure to common general surgical conditions. They are involved in all aspects of their units’ activities, including ward rounds, patient management and academic activities. The differential diagnosis and basic and specialised investigations are emphasised in each clinical situation. Students present their patients on the ward rounds, at firm meetings and the combined x-ray conferences. They accompany their patients to interventional procedures and present at least two cases per week to attending consultants; this is signed off in a logbook. Students produce a portfolio of at least six cases which provides a starting point for case/problem-based learning. Additional weekly interactive tutorials and seminars by consultant staff review core theoretical knowledge. Students keep a logbook documenting their presentation of cases to consultants, and this may be reviewed during the end-of-block assessment.

DP requirements: Completion of the six portfolio cases and a completed logbook of eight presented cases comprise the DP for the course. However, full attendance and participation in unit is considered compulsory.

Assessment: The end-of-block assessment comprises a clinical, scenario-based and portfolio oral assessment (25%); a patient-based oral examination (25%); a computerised, clinically-based MCQ (25%); and a computerised theoretical knowledge-based MCQ (25%).
OTHER COURSES OFFERED

AXL1300F  INTRODUCTION TO LANGUAGE STUDIES
18 NQF credits at HEQSF level 5
Convener: TBA
Course entry requirements: None
Course outline:
On completion of the course students would have covered topics such as: phonetics (the production and classification of speech sounds, the International Phonetic Alphabet, suprasegmentals); phonology (how speech sounds are organised in language; the phoneme-allophone distinction); morphology (form–meaning pairs; morphemes and word-formation; syntax (the rules that govern the phrase, structures of language; elements of generative grammar); and semantics relations, semantic features; an introduction to psychological and neurobiological aspects of how humans acquire language.
Lecture times: 3rd period, Monday – Wednesday.
DP requirements: All written work to be handed in and at least 75% attendance at lectures and tutorials.
Assessment: Continuous assessment (essays, projects, tests, etc.) counts 100%.

AXL1301S  INTRODUCTION TO SOCIOLINGUISTICS
18 NQF credits at HEQSF level 5
Convener: TBA
Course entry requirements: None
Course outline:
This course focuses on the study of language in its social context, a branch of Linguistics that is referred to as sociolinguistics. On completion of the course students would have covered topics such as: introduction (basic concepts and issues in sociolinguistics); regional variation; social variation; language change; multilingualism; language and interaction; gender and language; language contact; pidgins, creoles and new Englishes; language planning and policy; language and education; the sociolinguistics of sign language. On completion of the course students would have covered topics such as: introduction (basic concepts and issues in Sociolinguistics); regional variation; social variation; language change; multilingualism; language and interaction; gender and language; language contact; pidgins, creoles and new Englishes; language planning and policy; language and education; the sociolinguistics of sign language.
Lecture times: 3rd period, Monday – Wednesday.
DP requirements: All written work to be handed in and at least 75% attendance at lectures and tutorials.
Assessment: Continuous assessment (essays, projects, tests, etc.) counts 100%.

AXL1302S  LINGUISTICS FOUNDATION
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and S Bowerman
Course entry requirements: None
Course outline:
This foundational course revisits core areas of AXL1300F. It aims to: move students beyond a lay person’s understanding of the nature of language; generate a clear, basic understanding of the kinds and purposes of enquiry in linguistics and selected sub-disciplines, and indicate how they are related to the study of communication sciences and disorders; ensure that students have a solid grounding in key concepts in phonetics, phonology, morphology, syntax and semantics, and that they have the skills to use these concepts in the analysis of data. Others are pragmatic rule, regional and social dialectology, elements of neurolinguistics and language families. Upon successful completion, students will understand the nature and interrelationship of language systems; grasp and work with the levels of abstraction involved in phonology, morphology, syntax and semantics; and describe,
analyse and explain selected linguistic processes and types of data and use appropriate conventions to present these descriptions, analyses and explanations.

**Lecture times:** Monday and Thursday (11h00-13h00), Tuesday (self-study) (14h00-16h00).

**DP requirements:** Full attendance of and participation in all lectures, tutorials and self-directed learning sessions.

**Assessment:** In-course assessment contributes 60% and comprises tutorial tasks (10%); and two tests (weighted at 25% each). The examination contributes 40% of the final mark. Students who fail the final assessment may be allowed to register for a summer term course and write another examination in the same year.

**AXL1303F  SOCIOLINGUISTICS FOUNDATION**
18 NQF credits at HEQSF level 5
Convener: Dr B Ige and S Bowerman

**Course outline:**
This course forms part of the (foundational) Intervention Programme. It aims to prepare students for what they will encounter in AXL1301S when they re-enter the standard curriculum, and will ensure that students understand the ways in which social context affects all aspects of language use. The course will give students a solid grounding in key areas of sociolinguistics: language in interaction; language variation and change; language and identity; language contact; and multilingualism and language policy, particularly in South Africa. It helps to: prepare students for phenomena and problems they are likely to encounter in their profession; assist students to learn to read and understand graphs, tables and other modes of data presentation in sociolinguistic texts; and develop students’ ability to present their own descriptions and explanations of sociolinguistic phenomena appropriately in essays. At the end of the course students will be able to identify the attitudinal, aspirational, and other social factors which commonly have an impact on who speaks (or writes) to whom, about what, under what circumstances, and how these factors could shape aspects of actual and desired language use among the communities and individuals with whom they will engage in their clinical training and professional work. Students draw on the work they did in the previous semester (particularly phonetics, phonology, morphology and syntax).

**Lecture times:** Monday (10h00-12h00); Tuesday (self-study/fieldwork -14h00-16h00); and Thursday (11h00-13h00).

**DP requirements:** Full attendance of and participation in all lectures, fieldwork and self-directed learning sessions.

**Assessment:** In-course assessment contributes 60% and comprises fieldwork and self-directed learning tasks (10%), a test (25%) and an assignment (25%). The final examination contributes 40% to the final mark. These assessments and examination contribute 60% towards the final year mark at the end of Intervention Programme 2.

**CEM1011F  CHEMISTRY FOR MEDICAL STUDENTS**
*(Faculty of Science)*
18 NQF credits at HEQSF level 5
Convener: Dr S Wilson

**Course entry requirements:** None

**Course outline:**
This introductory course is designed to provide first year medical students with knowledge of the fundamental aspects of chemical theory. The course also serves as a diagnostic tool to explore students' scientific knowledge and the possible need for intervention. It comprises 60 formal contact hours during which selected topics in physical and organic chemistry relevant to biochemistry, physiology, pharmacology, chemical pathology and medical microbiology are covered. Topics have been selected to equip students with the basic understanding of those key chemical principles they require for the medical programme. Formal contact sessions are augmented by a practical course and weekly tutorials. Specific support activities are provided to students who show difficulty in understanding the scientific domain. During the practical component, students are required to demonstrate that they are able to use a variety of laboratory techniques with precision and accuracy.
226 OTHER COURSES OFFERED

The practical course also seeks to expose students to the methods used in the acquisition, recording and manipulation of scientific data and expects students to derive inferences from such data.

**Lecture times:** Monday - Friday, 1st period. Tutorial/practical: Friday, 2nd-5th period.

**DP requirements:** Attendance and completion of practicals tests and tutorial exercises.

**Assessment:** The class record counts 45% and comprises a practical record (10%); tutorial exercises (5%); two class tests (20%); and a practical test (10%). The final examination counts 55% and consists of a 3-hour written examination. A pass is required in the final examination.

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**CEM1011X CHEMISTRY FOR MEDICAL STUDENTS**

*(Faculty of Science)*

18 NQF credits at HEQSF level 5

**Convener:** Dr S Wilson

**Course entry requirements:** CEM1111S

**Course outline:**

CEM1011X is a foundational chemistry course and, together with CEM1111S, covers the same material as that in the CEM1011F syllabus. Students in the Intervention Programme Part 2 are required to take this course. Although CEM1111S and CEM1011X together are equivalent to CEM1011F, the lecture material is not simply repeated. Instead, foundations and concepts pertaining to the core material in CEM1011F are discussed in depth. Additional and alternative approaches are used to help students understand the core material. The course comprises three lectures and one two-hour tutorial session per week in the first quarter and one two-hour tutorial session in the second quarter of the first semester.

**DP requirements:** Attendance and completion of tests and tutorials exercises.

**Assessment:** The CEM1011X class record (comprising tests and tutorials) counts 14%. The CEM1011X class record and the CEM1111S class record count 45%. The CEM1011X examination counts 55% and consists of a 3-hour written examination. A pass is required in the final examination.

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**CEM1111S CHEMISTRY FOR MEDICAL STUDENTS**

*(Faculty of Science)*  
**CEM1111S is currently under review and might not be offered in its current format in 2020.**

0 NQF credits at HEQSF level 5

**Convener:** Dr S Wilson

**Course entry requirements:** CEM1011F

**Course outline:**

CEM1111S is a foundational (Intervention Programme) chemistry course and, together with CEM1011X, covers the same material as that in the CEM1011F syllabus. Although CEM1111S and CEM1011X together are equivalent to CEM1011F, the lecture material is not simply repeated. Instead, foundations and concepts pertaining to the core material in the CEM1011F syllabus are discussed in depth. Additional and alternative approaches are used to help students understand this core material. The CEM1111S course comprises three lectures, two tutorials and one practical session per week in the second semester. The lectures and tutorials are one hour each and the practical is three hours. Students have daily contact with the chemistry lecturer and/or tutor.

**DP requirements:** Although there is no final examination for CEM1111S, to qualify for the CEM1011X final examination in June the following year, students are required to meet the DP requirements for both CEM1111S and CEM1011X, which entail: attendance and completion of practicals, tests and tutorial exercises.

**Assessment:** The CEM1111S class record counts 31%. The CEM1111S class record and the CEM1011X class record count 45%. The CEM1011X examination counts 55% and consists of a 3-hour written examination. A pass is required in the final examination.
### PHY1025F PHYSICS 1025
18 NQF credits at HEQSF level 5

**Convener:** Dr S W Peterson

**Course entry requirements:** None

**Course outline:**
The course aims to provide a foundation in physics for later courses in the biological and physical sciences in the medical curriculum. Topics covered include mathematical skills for physics; Newton's laws of translational motion, force, friction, work and energy; bodies in static equilibrium; density and pressure in fluids; fluid flow, viscosity, temperature, gas laws, heat and heat transfer; first law of thermodynamics, human metabolism and first law; wave motion, transverse and longitudinal waves, interference of waves; sound, ear's response to sound, Doppler effect, ultrasound and medical imaging; electric charge and field, electric potential and potential difference, electric current, resistivity and simple circuits; light, reflection and refraction, thin lenses, the human eye.

**DP requirements:** Attendance of all scheduled tutorials and practical sessions; completion of all set written course activities (i.e. tutorial assignments, practical reports and course tests); and a minimum class record of 35%.

**Assessment:** Coursework counts 40% and comprises three class tests (10% each) and a laboratory record (10%); and the final examination counts 60%.

### PSY1004F INTRODUCTION TO PSYCHOLOGY PART 1
Preference will be given to students who list Psychology as a major in a Humanities degree (BA or BsocSc), and students in one of the following programmes: Social Work, Physiotherapy, Occupational Therapy, Speech and Communication Disorders (Speech Therapy and Audiology) or any other approved Health Sciences service programme, and student majoring in Organisation Psychology.

18 NQF credits at HEQSF level 5

**Convener:** L-A Pileggi

**Course outline:**
The course aims to introduce the student to some of the areas of specialisation within psychology. These include history of psychology, biopsychology and memory, genetics and evolutionary psychology, health psychology, developmental psychology, psychopathology and psychotherapy, and learning. Students are taught a great deal about plagiarism and develop skills necessary to write essays and prepare other submissions to the Psychology department.

**Lecture times:** Tuesday to Friday 1st or 5th period.

**DP requirements:** Satisfactory completion of all assignments by due date, attend at least 80% of tutorials, complete one of the two class tests. In addition, obtain one Student Research Participation Programme (SRPP) point or equivalent.

**Assessment:** Coursework (term assignments and tests) counts 50%; one two-hour examination in June counts 50%. Students are expected to complete the June examination as well as all coursework before being awarded a pass in this class.

### PSY1005S INTRODUCTION TO PSYCHOLOGY PART 2
18 NQF credits at HEQSF level 5

**Convener:** L-A Pileggi

**Course entry requirements:** PSY1004F

**Course outline:**
This course builds on the content covered in Introduction to Psychology Part 1. There is emphasis on research methods, both quantitative and qualitative methods. The student is also introduced to other areas of specialisation, including intelligence, consciousness, emotion and motivation, personality and social psychology. With a focus on research methods, students develop skills necessary to write a research report and prepare other submissions to the Psychology department and to carry out conceptual analyses of research materials and results.

**Lecture times:** Tuesday to Friday 1st or 5th period.
DP requirements: Satisfactory completion of all assignments by due date, attend at least 80% of classroom tutorials, submit all statistics lab-based exercises, complete one of the two class tests. In addition, obtain 3 Student Research Participation Programme (SRPP) points or equivalent.

Assessment: Coursework (term assignments and tests) counts 50%, one two-hour examination in November counts 50%. Students are expected to complete the November examination as well as all coursework before being awarded a pass in this class.

**PSY1006F**  INTRODUCTION TO PSYCHOLOGY PART 1 +
10 NQF credits at HEQSF level 5
Convener: L-A Pileggi
Course entry requirements: None (extended programme students only).
Co-requisites: PSY1004F.
Course outline:
The purpose of this course is to augment and support its co-requisite course: PSY1004F INTRO TO PSYCHOLOGY PART 1. It aims to improve students’ performance by enhancing their grasp of key ideas and concepts, and by developing their mastery of the disciplinary discourse. It provides additional pedagogic enrichment in the form of regular Plus Tuts that extend into Writing Hub exercises and consultations. In these tutorials, students will receive explicit support around the co-requisite course assignments and detailed feedback on their written work.

Lecture times: Tutorial times by sign-up with the department.
DP requirements: There are no DP requirements for this course. Pass or fail grade will be awarded.
Assessment: Coursework 100% comprising of tutorial assessments and other written work. 100% tutorial attendance plus successful completion of all coursework assignments required to pass this course.

**PSY1007S**  INTRODUCTION TO PSYCHOLOGY PART 2 +
10 NQF credits at HEQSF level 5
Convener: L-A Pileggi
Course entry requirements: None (extended programme students only).
Co-requisites: PSY1005S.
Course outline:
The purpose of this course is to augment and support its co-requisite course: PSY1005S INTRO TO PSYCHOLOGY PART 2. It aims to improve students’ performance by enhancing their grasp of key ideas and concepts, and by developing their mastery of the disciplinary discourse. It provides additional pedagogic enrichment in the form of regular Plus Tuts that extend into Writing Hub exercises and consultations. In these tutorials, students will receive explicit support around the co-requisite course assignments and detailed feedback on their written work.

Lecture times: Tutorial times by sign-up with the department.
DP requirements: There are no DP requirements for this course. Pass or fail grade will be awarded.
Assessment: Coursework 100% comprising of tutorial assessments and other written work. 100% tutorial attendance plus successful completion of all coursework assignments required to pass this course.
PSY2013F  SOCIAL AND DEVELOPMENTAL PSYCHOLOGY
Was previously PSY2003S (Social Psychology and Intergroup Relations) and PSY2009F (Developmental Psychology)
24 NQF credits at HEQSF level 6
Convener: Dr M Malinga
Course entry requirements: PSY1004F and PSY1005S or equivalent.
Co-requisites: None
Course outline:
This course provides an introduction to two major areas of psychological research and theory. Social Psychology is taught in one half of the course. The social psychology module introduces students to some basic concepts and theories in social psychology, exposes students to current research within the field, and provides an opportunity for students to engage critically with existing theories and their relevance to the South African context. Some of the major topics covered will include race and racism, social identity and social change, intergroup contact, and social influence. Developmental psychology is taught in the other half of the course. The developmental psychology module focuses on understanding the changes and continuities that occur in children from conception through adolescence. The sessions will cover central theoretical issues and research strategies in developmental psychology, prenatal development, cognitive and language development, social and emotional development, and contexts of development.
Lecture times: Tuesday to Friday, 7th period.
DP requirements: Completion of all coursework, and 80% attendance at tutorials.
Assessment: Coursework will be weighted at 50%, and will include completion of tutorial assignments, essays and tests as required. An exam at the end of the semester will be weighted 50%.

PSY2014S  COGNITIVE NEUROSCIENCE AND ABNORMAL PSYCHOLOGY
Was previously PSY2010S (Cognition and Neuroscience) and PSY2011F (Clinical Psychology I)
24 NQF credits at HEQSF level 6
Convener: TBA
Course entry requirements: PSY1004F and PSY1005S
Course outline:
This course aims to introduce students to a variety of topics relevant to normal cognitive functioning as well as psychopathology. While one half of the course takes a neuroscientific approach, the other half of the course draws on psychological, sociocultural, cognitive and biological perspectives.
Lecture times: Tuesday to Friday, 7th period.
DP requirements: Completion of all coursework, attendance at all tutorials, and obtaining 3 points through the Student Research Participation Programme (SRPP).
Assessment: Coursework: 70% (assignment submissions = 40% and class test = 30%) Exam: 30%.

PSY2015F  RESEARCH IN PSYCHOLOGY I
Was previously PSY2006F (Research in Psychology I)
24 NQF credits at HEQSF level 6
Convener: Professor C Ward
Course entry requirements: PSY1004F, PSY1005S; and meeting mathematics criterion for entrance into PSY1004F.
Co-requisites: None
Course outline:
This course introduces students to research in Psychology. We will cover four major approaches to research in Psychology, namely quantitative research methods, qualitative research methods, statistical analysis of data, and psychometrics.
DP requirements: Completion of all coursework, 80% attendance at tutorials, and obtaining 3 points through the Student Research Participation Programme (SRPP).
Assessment: Coursework will be weighted at 50%, and will include completion of tutorial assignments, and tests as required. An exam at the end of the semester will be weighted 50%.
SLL1028H  XHOSA FOR HEALTH AND REHABILITATION SCIENCES
For students registered in the School of Health and Rehabilitation Sciences only.
18 NQF credits at HEQSF level 5; 25 lectures.
Convener: T Jacobs
Course outline:
This course introduces students to communication skills required for a successful interaction between a healthcare professional and a client. The course takes an integrated approach to language learning through incorporation of clinical experiences related to the disciplines of physiotherapy, occupational therapy, and communication and speech disorders. The main focus of this course is on pronunciation, grammar and interaction with clients. Interaction is used as a means of exposing students to Xhosa ways of expression, as well as to issues of cross-cultural and inter-cultural communication. At the end of this course students will be able to communicate with a speaker of Xhosa about common everyday topics; be able to elicit and understand information from a client using terminology specific to the fields of physiotherapy, occupational therapy and communication and speech disorders; and will have an awareness of some cultural issues that emanate from cross-cultural communication.

DP requirements: Attendance of at least 80% of the lectures; completion by the due dates of all assessments and projects.
Assessment: Coursework (vocabulary and oral assessments based on topics covered in the course) counts 50% and comprises four tests (two weighted at 15% each, and two weighted at 10% each); and examinations (June examination – simulated client interviews: 20%; and November examination – simulated client interviews: 30%).

SLL1041S  BEGINNERS’ XHOSA FOR MBCHB
Offered in the Faculty of Health Sciences
18 NQF credits at HEQSF level 5
Convener: T Jacobs
Course entry requirements: Registration for MBChB
Course outline:
An introduction to the noun class system of Xhosa and how this generates the concords used in creating sentences. A treatment of the tense system of Xhosa, positive and negative, including the stative (which is used extensively in talking about medical conditions). The development of relevant vocabulary banks and skills to manipulate the lexicon to form prepositions, pronouns and possessives. A simple explanation of Xhosa moods: indicative (making a statement), subjunctive (giving advice and making suggestions), participial (used in a wide range of contexts). An explanation of the difference between the active and passive voice in Xhosa, and a focus on how these are used in medical dialogues and patient interviews.

DP requirements: Attendance of all tutorials.
Assessment: One oral summative assessment, for which students receive a PA (pass) or F (fail) grade.

SLL1044S  BEGINNERS’ AFRIKAANS FOR MBCHB
Offered in the Faculty of Health Sciences
18 NQF credits at HEQSF level 5
Convener: Dr M Lewis
Course entry requirements: This course is only available to students who have no prior knowledge of Afrikaans and who are registered for the MBChB degree. Students with limited knowledge of Afrikaans will be allowed entry to the course at the discretion of the course convener.
Course outline:
This is a course on the basic grammar of Afrikaans. It prepares beginner students in Afrikaans for the SLL2002H (Becoming a Doctor Part IB) course and is taken a year prior to SLL2002H registration. By the end of the course, students are ready to apply the acquired grammatical knowledge in a medical context.
Lecture times: Arranged internally.

DP requirements: Attendance of all lectures AND students are required to complete all in-course vocabulary and listening comprehension tests.

Assessment: One oral summative assessment, for which students receive a PA (pass) or F (fail) grade.

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**SLL1048H** AFRICAANS FOR HEALTH AND REHABILITATION SCIENCES

*For students registered in the School of Health and Rehabilitation Sciences only.*

18 NQF credits at HEQSF level 5

Convener: Dr I van Rooyen

Co-requisites: Students must be registered for a degree in physiotherapy, occupational therapy, speech and language pathology or audiology.

Course outline:
The content of the course is based on case studies covered in the streams of physiotherapy, occupational therapy and communication sciences and speech disorders. The focus of the Afrikaans course is on communication skills, and specifically on those skills that may be required for an interaction between a healthcare professional and a client. Other skills include skill in asking questions and the ability to enter effectively into dialogue with a client. The course is taught at both beginner and intermediate levels and focuses on the unique pronunciation and stylistic variants of individual clients and culture-specific words and expressions.

Lecture times: Arranged internally.

DP requirements: At least 80% class attendance and completion of all assessments.

Assessment: Coursework (vocabulary and oral assessments based on topics covered in the course) – 50%; June assessment (simulated client interviews) – 20%; November examination (simulated client interviews) – 30%.

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**SLL2002H** BECOMING A DOCTOR: PART IB

*Offered to students registered for the MBChB degree only.*

18 NQF credits at HEQSF level 6

Convener: Dr I van Rooyen (Afrikaans) and (Xhosa) TBA

Course entry requirements: SLL1044S or equivalent.

Course outline:
The course teaches basic Afrikaans and Xhosa communication skills for doctors. The content of the languages course is synchronized with the content of PPH2000W (*Becoming a Doctor Part IA*). The focus of the course is on communication skills and specifically on those skills required for a doctor-patient interaction, including skill in asking questions and in effectively entering into dialogue with the patient. The course also deals with the unique pronunciation and stylistic variants of individual patients, culture-specific words and expressions, and the possible ‘indigenisation’ of language.

Lecture times: 6th – 8th period, Tuesdays to Fridays.

DP requirements: Completion of all in-course assessments. Students may not miss more than two class attendance sessions per language.

Assessment: Two oral summative assessments in semester 3 (50%) and two oral summative assessments in semester 4 (50%).
SLL3002H  BECOMING A DOCTOR: PART 2B  
*Offered to students registered for the MBChB degree only.*
30 NQF credits at HEQSF level 7
Convener: Dr I van Rooyen (Afrikaans) and T Jacobs (Xhosa)
Course entry requirements: SLL2002H
Course outline:
This course comprises “Afrikaans and Xhosa Communication Skills for Doctors” and further develops the skills learnt in the second year. Attention is given to history-taking within a clinical context and responses to individual speech acts. At the end of this course, students should be able to communicate with a speaker of Afrikaans or Xhosa about common everyday topics and elicit and understand information from a patient using case-specific terminology; and should have an awareness of some cultural issues that emanate from cross-cultural communication.
Lecture times: Arranged internally.
DP requirements: Completion of all in-course assessments. Students may not miss more than two sessions per language.
Assessment: Two oral summative assessments counting 70% and 30% respectively.

SLL3003W  CLINICAL LANGUAGE  
*Offered to students registered for the MBChB degree only.*
1 NQF credits at HEQSF level 7
Convener: Dr I van Rooyen (Afrikaans) and T Jacobs (Xhosa)
Course entry requirements: SLL3002H
Course outline:
The aim of this course is to develop oral proficiency in Afrikaans and isiXhosa within a clinical environment, so that students will be proficient in Afrikaans and isiXhosa relating to the history-taking pertaining to a patient’s primary presenting complaint and other relevant details. By the end of the course, students are able to obtain the main points of history from a patient in English, isiXhosa and Afrikaans.
Lecture times: Arranged internally.
DP requirements: 100% class attendance. Students who miss a session will be required to write a case report of a patient interviewed and present this to a facilitator for oral discussion in Afrikaans/Xhosa.
Assessment: One summative assessment, which includes an interview in Afrikaans as well as an interview in Xhosa. The marks contribute towards the MDN4011W end-of-block clinical exam mark.

SLL3004W  AFRIKAANS AND XHOSA CLINICAL LANGUAGE IN CARING FOR CHILDREN  
*Offered in the Faculty of Health Sciences*
2 NQF credits at HEQSF level 7
Convener: C Reyneke
Course entry requirements: All 4th year MBChB courses
Course outline:
Languages learning in Caring for Children aims to improve communication with Afrikaans and isiXhosa speaking caregivers and their sick children, in order to optimise the child’s medical care. Students will build on languages skills learnt in Years 1 to 4, with a focus on the context of a caregiver and sick child. The course consists of preparatory work, and three tutorials in each language, conducted in the ward in which they are working. At the end of the course, the student will submit a portfolio consisting of a isiXhosa patient summary, an Afrikaans patient summary, and a reflective review.
Assessment: Coursework 100%
Adolescent Health Research Unit (AHRU)
Division of Child & Adolescent Psychiatry, 46 Sawkins Road, Rondebosch, 7700

Adolescents face a wide range of health problems due to a combination of biological, social and psychological factors. There is therefore a clear need for a research facility that focuses specifically on the health needs of adolescents. The AHRU was established in 2003 by Prof Alan Flisher as an interdisciplinary facility to co-ordinate, promote and facilitate research on all aspects of adolescent health. The specific aims of the Unit are to: facilitate cutting edge interdisciplinary research that addresses key national public adolescent-health priorities; promote networking among adolescent-health researchers, practitioners and policy makers; increase the profile of the Faculty of Health Sciences, UCT, with regard to world-class adolescent-health research; provide policy consultation at local, provincial, national and international levels; and increase and improve educational offerings in adolescent health at undergraduate and postgraduate levels. The specific research themes in the AHRU include sexual & reproductive health, adolescent mental health, intimate partner violence in adolescence, abuse & bullying, and health & education systems for adolescents.

Website: www.ahru.uct.ac.za

PJ de Vries, MBChB Stell FRCPsych London PhD Cantab
C Mathews, BA Natal MSc (Medicine) PhD Cape Town
EL Davids, PhD UWC

Alan Flisher Centre for Public Mental Health
Department of Psychiatry and Mental Health, University of Cape Town, and Department of Psychology, University of Stellenbosch

The Alan J Flisher Centre for Public Mental Health (CPMH, www.cpmh.org.za), based in the Department of Psychiatry and Mental Health, Health Sciences Faculty at UCT, was established in April 2010, through approval by the UCT Senate Executive Committee and a Memorandum of Understanding signed between UCT and Stellenbosch University. Since its establishment the Centre has grown substantially and now conducts research in 8 countries in sub-Saharan Africa and south Asia with a research budget of over US$14 million. It is one of the leading international research centres in Public Mental Health based in a developing country. The CPMH currently leads two major mental health research consortia: the DfID-funded Programme for Improving Mental health care (PRIME, www.prime.uct.ac.za) and the NIMH-funded Africa Focus on Intervention Research for Mental health (AFFIRM, www.affirm.uct.ac.za), and is a partner in a third European Commission funded consortium, the Emerging mental health systems in low and middle-income countries project (EMERALD, www.emerald-project.eu). The CPMH also runs a distance learning Masters (MPhil) programme in Public Mental Health, with students from 7 African countries, as well as a PhD programme (currently supporting 9 PhD students) and 2 Postdoctoral Fellowships. Fellowships for these programmes are supported through the the Wellcome Trust funded African Mental health Research Initiative (AMARI). The CPMH is also home to the Perinatal Mental Health Project (www.pmhp.za.org). The CPMH employs a multi-disciplinary team dedicated to undertake high quality research in the areas of public mental health, mental health policy and services.

K Sorsdahl, PhD Cape Town
Brain and Behaviour Unit (BBU)
Dept of Psychiatry, Groote Schuur Hospital

The Brain and Behaviour Unit is a multi-disciplinary hub for psychiatric neuroscience research based in the Division of Psychopharmacology and Biological Psychiatry of the Dept of Psychiatry & Mental Health. The Brain and Behaviour Unit focuses on psychiatric neuroscience (i.e. psychiatric neurogenetics, psychiatric neuroimaging, translational neuroscience relevant to mental disorders), and provides a mechanism for supporting postgraduate students and postdoctoral fellows; for psychiatric neuroscience education; and for multi-disciplinary collaborative relationships. It comprises three groups; the Psychiatric Neurogenetics Group, the Psychiatric Neuroimaging Group, and the Translational Neuroscience Group. The Brain and Behaviour Unit aims to contribute to issues that are particularly relevant to the South African and African contexts, such as psychological trauma, substance use, and neuroHIV. Members of the Brain and Behaviour Unit employ a range of methods in this work, including phenotyping, cognotyping, genotyping, brain imaging and characterizing molecular signature.

DJ Stein, BSc (Medicine) MBChB Cape Town FRCPC PhD DPhil Stell

Cancer Research Initiative
J52-12, Old Main Building, Groote Schuur Hospital

Cancer is an important cause of morbidity and mortality worldwide, with an increasing proportion of the burden falling on low- and middle-income countries. The aim of the Cancer Research Initiative is to foster an integrated, interdisciplinary cancer research program, enabling the Faculty to be at the forefront of research endeavors to address the alarming cancer burden in South Africa, Africa and beyond. There are many excellent researchers conducting high quality basic, clinical and population oriented cancer research in the Faculty. The Initiative builds on current strengths and promotes collaborative research into effective and relevant approaches to prevention, diagnosis, and treatment of cancer. It supports translation of this knowledge into preventive, therapeutic and public health strategies. In this context the Initiative encourages and supports local, national and international partnerships. The Initiative will also develop research capacity among clinicians, other health professionals and scientists with a view to developing and maintaining a critical mass of expert cancer researchers.

Professor and Director:
J Moodley, MBChB MMed PhD Cape Town

Cape Heart Centre
Christiaan Barnard Building, Faculty of Health Sciences

This combined research entity is the largest heart research group in South Africa. The Hatter Institute is involved in the study of the molecular and cellular biology of ischaemic heart disease, as well as the molecular and cellular pathophysiology of cardiac hypertrophy and heart failure. The goals of the research programme are to contribute to the fundamental understanding of the mechanisms in the development of ischaemic heart disease, cardiac hypertrophy and heart failure. The Cardiovascular Research Institute is focusing on tissue regeneration, heart valve prostheses and biocompatible materials for vascular and valvular prostheses. Lipidology is concerned with the research into lipid and lipoprotein disorders in patients in the region and novel treatment strategies for these disorders. Additionally, their research includes new diagnostic assays for local problems in healthcare and lipid peroxidation. The University of Cape Town start-up company with its 32 engineers and technologists occupies 2 floors of the Cape Heart Centre. “Strait Access Technologies” (SAT) is in its 5th year of developing long-lasting, easily insertable heart valve
replacements and repairs for the young patients in Africa with Rheumatic Heart Disease who have no access to open heart surgery.

Professor and Director:
P Zilla, MD PhD Vienna DMed Zurich PhD Cape Town
C Barnard, Chair

Cardiovascular Research Unit
Third Floor, Chris Barnard Building, Faculty of Health Sciences

The Cardiovascular Research Unit is an integral part of the Division of Cardiothoracic Surgery. As such, it provides postgraduate training in the disciplines of Cardiovascular Biomaterials and Cardiothoracic Surgery Research. Both MSc (Medicine) and PhD degrees by dissertation are offered in these disciplines.

Laboratory-based research is carried out in the fields of bioprosthetic and polymeric heart valves, biomaterials research, myocardial regeneration, regenerative vascular grafts and tissue engineering.

Professor and Director:
P Zilla, MD PhD Vienna DMed Zurich PhD Cape Town

Deputy Director:
P Human, PhD Cape Town

Professor:
D Bezuidenhout, PhD US

Associate Professor:
N Davies, PhD Oxon

Laboratory Assistant:
R Michaels

Financial Officer:
J Brooks

Centre for Environmental and Occupational Health Research (CEOHR)
Level 4, Falmouth Building South

The Centre, a WHO collaborating centre in occupational health between 2005 – 2014 and an MRC research entity between 2001-2005, was upgraded in 2009, following its initial establishment as a research unit in 1993. The SA Swiss Bilateral Research Chair in Global Environmental Health is based in the Centre. The core objectives of the Centre are:

To be a principal Centre of environmental and occupational health research, teaching and training, occupational medical clinical services, policy advisory, technical consultancy services, advocacy and a source of supportive outreach activities in South Africa, in the Southern and Eastern regions of Africa, Africa more generally, and internationally;

To conduct multidisciplinary research, teaching and service provision integrating laboratory, clinical, epidemiological and policy skills in relation to environmental and occupational health problems that have high priority in Southern Africa in order to facilitate
RESEARCH STRUCTURES

identification and improved characterisation of these and other problems and to better understand the determinants of these problems and their solution;

To explore and develop means of maintaining the health of individuals and the environment, especially in relation to environmental health risks and the work environment, and of preventing the development of health problems in those exposed to injurious environments at work or more generally.

To conduct public policy research into issues ranging from toxic or injurious exposures through to health surveillance, the functioning of relevant health services including promotive, preventive, curative and rehabilitative/compensation aspects;

To foster inter-institutional research, teaching and service (including outreach) collaboration with United Nations and other agencies;

To foster inter-institutional research, teaching and service (including outreach) collaboration and capacity development; and

To translate and implement the results of research in teaching, training, policy, service provision and outreach.

Professor and Director:
MA Dalvie, BSc BScHons (Medicine) MSc (Medicine) PhD Cape Town

Professor and Deputy Director:
HA Rother, BA MA PhD Michigan

Professors:
MF Jeebhay, MBChB Natal DOH MPhil Cape Town MPH PhD Michigan
L London, MBChB MMed MD Cape Town BScMedHons Stell DOH Witwatersrand

Associate Professor:
S Adams, MBChB DOH PhD Cape Town MFamMed Stell FCPHM (Occupational Medicine) SA

Emeritus Professors:
R Ehrlich, BBusSc MBChB PhD Cape Town DOH Witwatersrand FFCH FCPHM (Occupational Medicine) SA
JE Myers, BSc MBChB MD Cape Town DTM&H MFOM UK
ML Thompson, BScHons Natal PhD Gottingen

Research Co-ordinator:
R Baatjies, BTech MTech CPUT MPH Witwatersrand PhD Cape Town

Honorary Professor:
R Matzopoulos, BBusSc MPhil PhD Cape Town

Post-Doctoral Research Fellows:
A Saban, BSc BScHons MA PhD Cape Town
The Centre for Infectious Disease Epidemiology and Research is a World Health Organization (WHO) Collaborating Centre in HIV Epidemiology and Research and conducts multidisciplinary research on priority infectious diseases in Southern Africa, in order to improve disease prevention and management. The Centre has strong links to service providers at provincial and national level, and a long track record of conducting operations research around service delivery challenges. Staff includes epidemiologists, biostatisticians, mathematical modellers, data scientists, social scientists and public health specialists.

Associate Professor and Director:
M Davies, MBChB MMed PhD Cape Town FCPHM SA

Centre Manager:
C Sylvester, BA Unisa AIM Cape Town

Professors Full-time:
A Boule, MBChB PhD Cape Town MSc London FCPHM SA
L Myer, AB Brown MA MBChB Cape Town MPhil PhD Columbia

Senior Clinical Research Officers Full-time:
E Kalk, MBChB Witwatersrand PhD Birmingham MRCP London Dip (HIV Management) SA
M Tlali, BA MBChB Cape Town MSc DTMH LSHTM

Senior Research Officers Full-time:
L Johnson, BBusSc PGDip (Actuarial Science) PhD Cape Town
U Mehta, BPharm Witwatersrand DPharm Albany DrPH James Cook
N Tiffin, BSc MPH Cape Town PhD London
R Kassanjee, PhD Witwatersrand
M Cornell, MPH PhD Cape Town
M Osler, BS Colorado MPH Cape Town

Clinical Research Officer Full-time:
J Odayar, MBChB MPH Cape Town

Clinical Research Officers Part-time:
R de Waal, MBChB MPH Cape Town Dip (Pharm Medicine) UK
K Anderson, MBChB MPH Cape Town Dip (HIV Management) SA

Research Officers Full-time:
P Nyakato, BSc Makarere MSc LSHTM
G Patten, BSc Cape Town MSc LSHTM

Research Officer Part-time:
K Hilderbrand, BSc Sussex MSc London

Project Managers:
N Tena-Coki, BScHons UWC MSc PhD Cape Town
W Wiemers, BCom Unisa BSocScHons Cape Town

Research Coordinators:
H Madladla, BSc Durban MSc PhD UKZN
Universities play an important role in contributing to strategies that address the circumstances of children. As one of the duty-bearers responsible for intervention to improve children's lives, universities are increasingly being called upon to exercise their social responsibility towards this important sector of society. Against this background, the Children's Institute aims to harness the collective academic capability in the University to promote enquiry into the situation of children, to share this capacity through teaching and training programmes, and to present evidence to guide the development of laws, policies and interventions for children. In addition, in positioning itself as an independent broker of evidence, the Institute is also able to provide evidence to those who are advocating on behalf of children. The work of the Children's Institute is aimed at promoting the principle of taking the best interest of the child into account, and at ensuring that children are given primary consideration by society. In particular, the Institute pays special attention to promoting child participation in its work, and advocates for their voices to be heard, and their opinions to be taken seriously.

The Children's Institute is a multi-disciplinary institute aiming to contribute to policies, laws and interventions that promote equality and realise the rights and improve the conditions of all children in South Africa, through research, advocacy, education and technical support.

Research
- defining research questions in specific child policy areas
- conducting quality policy research
- stimulating inter-disciplinary research
- collating and analysing secondary research and data sets
Education
- conducting policy research training for graduate students from different disciplines
- contributing child policy modules to existing programmes
- delivering short courses or other appropriate training to child practitioners and policy makers

Technical assistance and support
- providing technical assistance to policy makers and practitioners
- supporting child policy role players with information, training and practice guidelines

Advocacy
- using evidence-based communication with government decision-makers
- producing publications directed at the policy, service provider, academic and popular fields
- information dissemination through a range of platforms
- participating in and supporting social movements that prioritise and promote children’s well-being
- increasing the cadre of practitioners, scholars and researchers versed in evidence-based approaches to child-focused policies and practice.

Director and Associate Professor:
S Mathews, MPH PhD

**Chronic Disease Initiative for Africa (CDIA)**
J47/86 Old Main Building, Groote Schuur Hospital

The CDIA is unique in South Africa, as well as in the region. It strives to connect a wide range of experts in NCD public health, clinical medicine, epidemiology, lifestyle modification, health economics, health behaviour, and implementation research and health service management in an expanding collaborative network. CDIA supports the World Health Organisation’s model for innovative, integrated care for chronic conditions (ICCC) and focuses on underprivileged patients attending public sector primary health care facilities. Consequently, CDIA is committed to the development, evaluation and dissemination of methods and programmes to prevent NCD and to improve the quality of care for people with these diseases and their risk factors. This commitment has already impacted on practice in South Africa and other African countries. Further, the initiative is developing the next generation of NCD researchers, by mentoring postgraduate students, as well as developing clinical capacity for NCD in health care providers who participate in CDIA research projects. Many CDIA network members have been actively involved with the Departments of Health in contributing to NCD policy development in South Africa.

Originally, CDIA research network members were drawn from three major tertiary academic institutions in Cape Town: (the University of Cape Town (UCT), Stellenbosch University (US) and the University of the Western Cape (UWC), as well as the South African Medical Research Council (MRC) and Harvard University (HU), USA. Since 2012, the membership has expanded to include members from Malawi, Kenya, Botswana, the Universities of Witwatersrand, North-West and Pretoria. In addition, Western Cape and National Departments of Health representatives sit on our management committee and governing board respectively.

Professor and Director:
N Levitt, MBChB MD FCP SA
**Wellcome Centre for Infectious Diseases Research in Africa (CIDRI-Africa)**

*IDM, UCT Faculty of Health Sciences*

The Wellcome Centre for Infectious Diseases Research in Africa (CIDRI-Africa) at the University of Cape Town conducts high quality translational infectious disease research in a setting of tremendous disease burden. The juxtaposition of infection burden with sophisticated research laboratories offers unique advantage. We foster investigator-led approaches via an overarching scientific theme:

1. To combat infection, especially HIV-1 and tuberculosis, via clinical and laboratory research
   Specific subthemes within this are:
2. To understand overlap between infections and non-communicable diseases of poverty, especially where the latter impact susceptibility to, or arise as a consequence of, infection
3. To understand and tackle the challenges (e.g. metabolic complications, resistance) of largescale antiretroviral therapy.

**Honorary Professor and Director:**
RJ Wilkinson, BMBCh FMedSci MA PhD DTM&H FRCP

**Collaborating Centre for Optimising Antimalarial Therapy (CCOAT)**

*UCT Division of Clinical Pharmacology, K Floor, Old Main Building, Groote Schuur Hospital*

UCT’s Collaborating Centre for Optimising Antimalarial Therapy (CCOAT, [www.ccoat.uct.ac.za](http://www.ccoat.uct.ac.za)) serves to bring together the expertise of clinical and laboratory researchers, working together to improve malaria treatment. Our strong track record of successful malaria research initiatives has led to our being selected to lead the Pharmacology module of Worldwide Antimalarial Resistance Network (WWARN) and as one of three South African Medical Research Council Collaborating Centres for Malaria Research.

Our clinical research studies conducted in Cape Town, and in malaria areas in South Africa and elsewhere in Africa, aim to inform policy-making at national, regional and global levels. As there are now countries where resistance has been confirmed to all currently available malaria medicines, there is an urgent need for new treatments. The first clinical step to develop novel antimalarials involves studies in healthy adults, which we conduct with participants identified from our adult volunteer database comprising a source population who are contactable and willing to be involved in our Cape Town-based clinical research studies. Most recently we conducted the first-in-human clinical trial on the novel antimalarial MMV390048, discovered by the team lead by UCT’s Professor Kelly Chibale and our field clinical trials and field work are now contributing to efforts to eliminate malaria from South Africa and its neighbours.

We also have an interest in finding optimal methods to evaluate the efficacy and safety of malaria treatments. The world-class quality of all our research is driven by our research staff, who also serve as members of The Global Health Network ([www.tghn.org](http://www.tghn.org)). Our coordination of 3 programmes for the Network ([www.globalhealthtrials.org](http://www.globalhealthtrials.org) South Africa, [www.globalresearchnurses.org](http://www.globalresearchnurses.org) and [www.globalpharmacovigilance.org](http://www.globalpharmacovigilance.org)) creates a synergistic relationship; our staff contribute to and work with both local and global clinical research communities to use Global Health Network eLearning and other resources to enhance clinical research standards in low and middle income settings, while internal resources developed for our clinical research studies are shared with the broader Global Health Network community.

WWARN ([www.wwarn.org](http://www.wwarn.org)) aims to provide the information necessary to prevent or slow antimalarial drug resistance and therefore reduce malaria morbidity and mortality. Through WWARN, our data is combined with those contributed by research groups globally, to conduct
pooled individual patient data analyses to answer pivotal questions to inform the best use of available antimalarials to prolong their useful therapeutic life and develop regulatory-compliant data standards for malaria clinical trials. Building on WWARN’s experience in collating and curating individual patient data from >400 clinical trials in >135,000 malaria patients, we have facilitated the development of CDISC standards for malaria (https://www.cdisc.org/) that are now required for submissions for licensing novel treatments by regulatory authorities (e.g. US Food and Drug Administration).

As our work involves many different methods to answer key questions on optimising malaria treatments, we collaborate with various other groups including the UCT Clinical Research Centre (www.crc.uct.ac.za), the UCT Pharmacometrics unit and Analytical laboratories within the Division of Clinical Pharmacology and H3D (www.h3d.co.za), as well as our many WWARN collaborators, the South African National Institute for Communicable Diseases, and the Universities of Pretoria and the Witwatersrand. The dynamic nature of this model results in a sustainable collaborating centre that impacts on malaria treatment policy and practice.

Professor and Director:
K Barnes, MBChB MMed Cape Town

Senior Clinical Research Manager:
E Allen, BScHons (Pharmacy) MPH CHP PhD

Lead Investigator:
P Sinxadi, MBChB MMed PhD Cape Town

Senior Data Manager:
L Workma, RN MPH

Project coordinator, The Global Health Network:
E Pietersen, RN MCur PhD

Clinical Research Assistant:
F Davids

Community Eye Health Institute
H53, Old Main Building, Groote Schuur Hospital

The Community Eye Health Institute provides postgraduate training in community eye health and eye care programme management. Both a Postgraduate diploma and an MPH (community eye health) track are offered. Consultancy for programme planning, evaluation and research is provided for blindness prevention programmes in developing countries.

Director:
D Minnies, MPH

Desmond Tutu HIV/AIDS Research Centre
IDM, Wernher & Beit Building North

Professor and Head:
R Wood, MBChB Cape Town DCH DTM&H FCP SA

Professor:
LG Bekker, MBChB PhD Cape Town DCH DTM&H FCP SA
The GHJRU is an interdisciplinary research unit that unites scholars, NGOs and practitioners to develop and implement innovative, interdisciplinary research and social interventions on social exclusion and violence in a range of social, political and institutional settings. We have a proven history of empirical, evaluation and monitoring projects, many of which are well cited in the literature and are foundational studies in the areas of gender-based violence, sexual and gender minority rights, and reproductive rights. We use our empirical research to develop well-informed, evidence-based advocacy positions to support legal and policy reform in South Africa and similarly situated countries. Our research is almost exclusively conducted in interdisciplinary teams, frequently including NGOs and government departments. The Unit also has a well-established history of providing technical assistance to a wide range of implementing partners including government and NGOs.

The mission of the Gender, Health and Justice Research Unit is to improve service provision to victims of crime, violence and human rights violations, to facilitate violence prevention, and to promote access to justice in Southern and Eastern Africa through interdisciplinary research, advocacy and education.

**Director and Associate Professor:**
LM Artz, BAHons SFU MA Cape Town PhD Queens University Belfast

**Associate Professor:**
A Muller, Dr Med Georg-August University Gottingen, Germany
Senior Researcher:
A Heath, BA Trinity College Dublin MA Queen’s University Belfast PhD Trinity College Dublin

Researchers:
K Daskilewicz, BAHons College of New Jersey MPH Cape Town
T Meer, BAHons UKZN MA Dalhousie University Halifax

Administration and Research Support:
L Stott

Research Affiliates:
G Aschman, BA BScScHons Cape Town, MSc Oxford
H Combrink, B lur LLB BAHons North West LLM Cape Town PhD UWC
C Corral, Licenciatura (Psychology) MA PhD University of Deusto
J Flavin, BA Kansas MA PhD American University Washington
S Tiedemann, MA University of Hamburg
E Smit, BA BAHons MA Stell

Geriatric Medicine and the Albertina and Walter Sisulu Institute of Ageing in Africa
L-51 Old Main Building, Groote Schuur Hospital

The Albertina and Walter Sisulu Institute of Ageing in Africa conducts interdisciplinary research in Geriatric Medicine, Neurosciences, Neuropsychology, Old Age Psychiatry and Social Gerontology. Current research interests include physical, cognitive and social functioning in old age: quality of life; vascular risk factors and stroke; falls in older persons; quality of care; dementia and cognitive disorders; and social and economic well-being.

William P Slater Chair of Geriatrics and Associate Professor:
MI Combrinck, MBChB BScHons (Medicine) PhD Cape Town FCP SA Neurology MRCP UK DTM & H London

Professors:
JA Joska, MBChB MMed PhD Cape Town FC Psych SA
SZ Kalula, BSc MBChB Zambia MMed MPhil PhD Cape Town FRCP UK

Senior Lecturer:
L de Villiers, MBChB Cape Town FCP SA

Senior Lecturer Part-time:
KGF Thomas, PhD Arizona

Honorary Senior Lecturers:
CA de Jager, BScHons HDE Natal PhD Cape Town
L Geffen, MBChB Cape Town MCFP SA

Visiting Associate Professor:
JR Hoffman, BAHons DPhil Oxon
**Hatter Institute for Cardiovascular Research in Africa (HICRA)**

4th and 5th floor of the Chris Barnard Building, Faculty of Health Sciences

The Hatter Institute for Cardiovascular Research in Africa (HICRA), within the Department of Medicine, is an active and productive arena for the training of both clinician-scientists and biomedical scientists with a focus on condition common in Africa. HICRA is comprised of several groups, namely the Cardiac Disease and Maternity Group, Cardioprotection Group, Cardiovascular Genetics and Heart of Africa Projects. Our state-of-the-art Translational Research hub provides a vibrant and stimulating space for interaction between members from the different research groups. A major focus is on translational research and to serve as a centre of training for post-graduate students from South Africa and other African countries. We are linked with the Institute of Infectious Diseases and Molecular Medicine, University of Cape Town. The vision of HICRA is to facilitate national and international collaborations in its fields of expertise.

**Aims and Objectives**

- To investigate cardiac disease interlinked with pregnancy (Cardiac Disease in Maternity Group, led by Prof K Sliwa);
- To study ways of protecting the heart against insults such as lack of blood flow (ischaemia) (Cardiac Protection Group, led by Prof S Lecour);
- To study the genetic basis of cardiomyopathy and other forms of heart disease (Cardiovascular Genetics Group; led by Dr G Shaboodien);
- To undertake African population studies, with a focus on translational research (Heart of Africa projects, led by Prof K Sliwa).
- To develop awareness projects linked to health education in South Africa and Africa
- In order to achieve research excellence, we strive to produce work that is published in high impact factor journals and that relevant to the society in which we live.
- A major focus is on translational research and serving as a centre of training for post-graduate students from South Africa and other African countries.

**Professor and Director:**

K Sliwa, MD Germany PhD DTM&H Witwatersrand FESC FACC

**Emeritus Professor:**

LH Opie, DPhil Oxon MD DSc (Medicine) Cape Town FRCP UK

**Professor:**

S Lecour, PharmD PhD Dijon

**Senior Research Officer:**

G Shaboodien, BScHons PhD Cape Town

**Honorary Professors:**

PJ Schwartz, MD PhD Pavia  
S Stewart, PhD Glasgow NFESC FAHA FCSANZ  
DM Yellon, PhD FESC FRCP UK

**Honorary Associate Professor:**

G Cotter, MD FACC FESC Israel

**Honorary Research Associate:**

M Carrington, BA PGDip (Psychology) PhD Australia
The Health Economics Unit (HEU) works to improve the performance of health systems by informing health policy and enhancing technical and managerial capacity in sub-Saharan Africa. Its foundation is academic excellence in research in health economics and related health systems issues.

The four core objectives of the HEU are:
- To conduct high-quality research in health economics, health policy and health systems;
- To train at the postgraduate level to improve technical research and health systems capacity;
- To develop capacity in health economics and related health systems research in Africa; and
- To provide technical support to facilitate the translation of health policies into practical programmes.

**Associate Professor and Director:**
JE Ataguba, BScHons *Nigeria* MPH PhD *Cape Town*

**Associate Professors:**
S Cleary, BA *Rhodes* BAHons MA PhD *Cape Town*
E Sinanovic, BSc *Zagreb* Dip (Financial Management) *Maastricht* MCom *Cape Town* PhD *London*

**Senior Lecturer:**
OA Alaba, BScHons MSc PhD *Ibadan*

**Research Officers:**
L Cunnama, BSc (Physiotherapy) MPH *Cape Town*
TD Wilkinson, BPharm *Otago* MSc *York*
V Mutymbizi-Mafunda, BBusSciHons MCom *Cape Town*

**Post-doctoral Fellows:**
J Hunter, BA *Wellesley* MA *Witwatersrand* MPH *Boston* PhD *Cape Town*
A Obse, BA MSc *Addis Ababa* PhD *Dublin*
CR Tamandjou, BSc *Walter Sisulu* BScHons MSc PhD *Stell*

**Emeritus Professor:**
D McIntyre, BCom BAHons MA PhD *Cape Town*

**HIV Mental Health Unit**

*J-Block, Groote Schuur Hospital*

The HIV Mental Health Research Unit is involved in neurobehavioral (specifically adherence and psycho-therapeutic interventions) and neuro-biological (specifically brain imaging, genetic, neurocognitive aspects, as well as drug interventions) research in HIV-associated neuropsychiatric disorders. Our work includes both adults and adolescents affected by HIV. The Unit is funded by the NIMH, MRC and NRF, as well as the University. It is collaborating with senior investigators from leading international and local groups. Further information may be found at [www.hivmentalhealth.uct.ac.za](http://www.hivmentalhealth.uct.ac.za)

**Professor:**
J Joska, MBChB MMed PhD *Cape Town* FCPsych *SA*
Institute of Infectious Disease and Molecular Medicine

Wolfson Pavilion Building

The Institute of Infectious Disease and Molecular Medicine (IDM) is a trans-faculty, multidisciplinary postgraduate research enterprise that operates in the fields of infectious disease and molecular medicine research. It is situated on the health sciences campus of the University of Cape Town (UCT) in a 7 100m² state-of-the-art facility.

The IDM is distinguished by the ability to drive world-class research at the laboratory-clinic-community interface by engaging a wide range of scientific and clinical disciplines.

These include medical biochemistry; chemical biology; genetics; clinical and experimental immunology; paediatrics; microbiology; molecular and cell biology; virology; infectious diseases; vaccinology; epidemiology; medicinal chemistry; pre-clinical pharmacology; structural biology; bioinformatics and computational biology.

Established in 2004, the IDM has become the largest research entity at UCT and a national leader in research and human capital development in the field of health sciences.

Web address: http://www.idm.uct.ac.za/

Full Members and Professors:

S Barth, BSc MSc Bonn PhD Bonn DMSc Cologne
L-G Bekker, MBChB DCH DTM&H FCP PhD SA
J Blackburn, BA MA DPhil Oxon
F Brombacher, PhD Freiburg
K Chibale, BSc Zambia PhD Cantab FRSC FRSSAf
CM Gray, BScHons Western England MSc PhD Witwatersrand
J Hapgood, BScHons PhD Cape Town
M Hatherill, MBChB DCH MMed MRCP FCPaed MD Cape Town
G Hussey, MBChB MMed Cape Town MSc (Clinical Tropical Medicine) London DTM&H UK FFCH SA
M Jacobs, BScHons (Medicine) PhD Cape Town
AA Katz, PhD Weizmann Institute
S Kidson, BScHons MSc PhD Witwatersrand HDip (Education) JCE
G Meintjes, MBChB PhD Cape Town FRCP UK FCP Dip (HIV Management) SA MPH Johns Hopkins
R Millar, BScHons MSc London PhD Liverpool MRCP FRCP
N Mulder, BScHons PhD Cape Town
MP Nicol, MBChB MMed Witwatersrand DTM&H FCPath (Micro Biology) SA PhD Cape Town
RS Ramesar, BScHons MSc UKZN PhD Cape Town
EP Rybicki, BScHons MSc PhD Cape Town MASSAf FRSSAf (Fellow of UCT)
BT Sewell, MSc Witwatersrand PhD London
ED Sturrock, BScHons (Medicine) PhD Cape Town MASSAf FRSSAf (Fellow of UCT)
J van Honk
A Williamson, BScHons PhD Witwatersrand MASSAf FRSSAf (Fellow of UCT)
C Williamson, BScHons PhD Cape Town MASSAf FRSSAf (Fellow of UCT)
A Wonkam, MBChB Cameroon MD Dip (Medical Genetics) Switzerland PhD UCT
R Wood, BScHons MBCh Oxon MMed DSc FCP SA (Fellow of UCT)

Full Members and Associate Professors:
W Burgers, BScHons MSc Cape Town PhD Cantab
H Cox, BScHons MPH PhD UniMelb
D Martin, BScHons MSc UKZN PhD Cape Town
JA Passmore, BScHons UKZN PhD Cape Town
T Scriba, BScHons MSc Stell DPhil Oxon

Full Member and Honorary Professor:
RJ Wilkinson, MA Cantab BM BCh Oxon PhD DTM&H FRCP FMed Sci Group Leader Francis Crick Institute London Wellcome Trust Senior Fellow in Clinical Science and Professor of Infectious Diseases Imperial College (London)

Affiliate Members and Professors:
K Barnes
A Boule, MBChB PhD Cape Town MSc London FCPHM SA
K Dheda, MBBCh Witwatersrand FCP SA FCCP PhD FRCP London
BS Eley, MBChB FCP (Paediatrics) SA BScHons (Medicine) Cape Town
G Maartens, MBChB MMed FCP SA DTM&H
H McIlreron, MBChB PhD Cape Town
L Myer, BA Brown MBChB MA Cape Town MPhil PhD Columbia
K Naidoo, BScHons MSc Cape Town PhD Michigan FRSSAf
M Ntsekhe, MD PhD FCP SA FACC
MI Parker, BScHons PhD Cape Town MASSAf FIAS fTWAS
K Sliwa-Hahne, MD PhD FESC FACC
DJ Stein, BSc (Medicine) MBChB Cape Town FRCPC PhD Stell DPhil
HJ Zar, MBBCh Witwatersrand BCPaed BCPaed Pulmonology USA PhD FCPaed SA FRCPC Edinburgh

Affiliate Member and Associate Professor:
D Coetzee, BA Cape Town MBCh Oxon DPM&H DOH Witwatersrand FCPHM SA MS Columbia

Associate Members and Professors:
C Dandara, PhD University of Zimbabwe
V Leaner, PhD Cape Town

Associate Members and Associate Professors:
W Horsnell, BScHons Leeds PhD London
C Orrell, MBChB MSc MMed PhD Cape Town
DF Warner, BCom BScHons PhD Witwatersrand

Associate Members and Researchers:
A Coussens, BScHons Adelaide PhD Brisbane
R Guler, BScHons MSc PhD Geneva
The Kidney and Hypertension Research Unit is a group of approximately 40 staff and students, who through their academic and clinical activities seek to reduce death rates and improve the quality of health of people with kidney disease and hypertension particularly in the Black population of South Africa. This would be in keeping with the strategic goal of the University of Cape Town namely expanding and enhancing South Africa’s Development Challenges.

The focus areas of research will concentrate on aspects of hypertension and kidney disease in African (Black) people of our country, who are prone to excess morbidity and mortality from both hypertension and chronic kidney disease. For example, HIV associated nephropathy is an almost exclusive disease of Blacks. The thrust of the research will explore the underlying causes and translate this into preventive and treatment strategies. The specific focus areas are resistant hypertension in indigenous people, genetics of salt sensitive hypertension, genetics of hypertensive kidney disease, therapeutic drug monitoring, physiological treatment of hypertension, classification of HIV and the kidney or HIVAN, effects of antiretroviral treatment of blood pressure and vascular stiffening, MRI findings in HIVAN, effects of tenofovir on renal function, kidney biopsy finding in HIV+ve to HIV-ve kidney transplants, outcomes of systemic lupus erythematosus (SLE), bioinformatics of SLE and glomerulonephritis in Africa. In the past 5 years, the unit has published 84 peer reviewed publications.

From the capacity point of view the Unit has at least 16 post graduate students registered for Master’s degrees and 1 intended PhD candidate, and is involved in the teaching of post graduate students through degrees, lectures, seminars, and courses. Teaching and training of nephrologists from Sub-Saharan Africa through the International Society of Nephrology is a major component of our programme. Acquisition of a state of the art ultrasound machine has resulted in upskilling of post graduate registrars in the insertion of vascular access and performance of renal biopsies. Two major NRF research grants to the value of nearly R3 million were awarded to Brian Rayner and Ike Okpechi.

Professor and Head:
BL Rayner, MBChB MMed Cape Town FCP SA PhD Cape Town

Honorary Professor:
P Heering, MD Fellow of the American Society of Nephrology

Associate Professors:
I Okpechi, MB BS FWACP Cert (Nephrol Phys) SA PhD Cape Town
N Wearne, MBChB BMedSciHons Sydney FCP SA Cert (Nephrol Phys) SA PhD

Emeritus Associate Professor:
CR Swanepoel, MBChB Cape Town MRCP FRCP UK
Senior Lecturers:
Z Barday, MBChB FCP SA
E Jones, MBBCh FCP Cert (Nephrol Phys) SA PhD Cape Town

Honorary Senior Lecturer:
M Pascoe, MBChB FCP SA

Surgeons (Transplants and Dialysis Access):
JM Du Toit, MBChB Stell FCS SA
D Kahn, MBChB Birmingham ChM Cape Town FCS SA
E Muller, MBChB Pret MMed Cape Town MRCS FCS SA
DA Thomson, MBChB UKZN FCS SA MMed Cape Town

Social Worker:
L Hlakudi

Transplant coordinators:
F McCurdie
M Reyneke

Transplant Clinic/Unit Nursing Staff:
K Goliath
R Solomon
F Du Plessis

Administrative and Clerical Staff:
D Blankenberg
A Oosthuizen
J Eiman
A Daniels

Lung Institute
George Street, Mowbray

The University of Cape Town Lung Institute is a privately registered company, wholly owned by the University of Cape Town. The Institute opened for business in 2000 and as a private registered company retains its own separate corporate identity, administration department, staffing procedures and finance. The Institute benefits from representation from the University on its Board and Finance committees, and the Institute collaborates with many departments within the Health Sciences Faculty. Associate Professor Rod Dawson has been Director of the UCT Lung Institute since January 2016.

There are five Clinical Research Units (CRU’S) that are part of the Lung Institute:

Allergy Diagnostic and Clinical Research Unit
University of Cape Town Lung Institute, George Street, Mowbray

The Allergy Diagnostic & Clinical Research Unit (ADCRU) of the UCT Lung Institute serves as a centre for the investigation, diagnosis and management of allergic diseases.

It has five main areas of operation:
- A state of the art diagnostic and research Allergology laboratory for investigation of allergic reactions to environmental agents, including several allergens unique to Southern Africa.
• A clinical trial section research unit focusing on studies of paediatric and adult asthma, rhinitis, urticaria, eczema, allergen immunotherapy, drug allergy and allergy diagnosis.
• Specialist allergy clinics for investigation and treatment of children and adults with allergic diseases, with a special focus on sublingual and subcutaneous allergen immunotherapy, food allergy, chronic urticaria and drug allergy.
• Training of undergraduates and postgraduates students in clinical and laboratory aspects of Allergology.
• Postgraduate training of subspecialist allergists

Associate Professor and Head:
JG Peter, MBChB FCP SA MMED PhD UCT

Centre for TB Research Innovation
2nd Floor, University of Cape Town Lung Institute, George Street, Mowbray

Tuberculosis is one of the most important global health problems. The vast majority of TB cases are in developing countries and South Africa has an exceedingly high TB case rate. New drug treatment regimens for tuberculosis are a global priority and the current TB regimen although effective in drug sensitive disease but is not user friendly and requires prolonged observed therapy. Developing drug-resistance fueled by poor compliance is a growing concern. Our mandate at the CTBRI is to facilitate the development of innovative new drug compounds aimed at reducing duration of therapy, pill burden and improved patient outcomes. We have developed extensive clinical experience in conducting relevant and quality tuberculosis drug research.

Our particular strengths are:
• An experienced team of dedicated research staff dedicated to improving quality of life in our patients living with tuberculosis.
• A proven patient recruitment network and established relationships with local TB authorities with excellent patient compliance profiles developed through our day to day experience with monitoring patients on clinical trials.
• Broad experience gained through an extensive network of collaborating institutions, funders and NGO’s.
• A proven academic record at the University of Cape Town Lung Institute.
• Extensive experience in bronchial lavage studies and lung immunology studies in tuberculosis.
• Access to a state of the art, FDA compliant digital database.
• Our state of the art inpatient drug testing unit is situated on Level 1 of the UCT Lung Institute. Our medical staff of TB research sisters and an on-site clinicians and pulmonologists handle the clinical and regulatory aspects required for quality research. We also are able to provide advice and guidance on investigating new treatments for multi drug resistant (MDR) tuberculosis.

Associate Professor and Head:
R Dawson, MBChB FCP SA Cert (Pulmonology) UCT

Knowledge Translation Unit
4th Floor, University of Cape Town Lung Institute, George Street, Mowbray

The Knowledge Translation Unit is a Clinical Research Unit of the University of Cape Town Lung Institute. It was formally established in 2005 to continue work begun in 2000 to provide primary care guidelines and training on respiratory disease. It has since expanded its scope to address priority conditions in primary care in line with the Lung Institute’s mandate to “address priority health issues in Southern Africa through education, research and service.”
Knowledge Translation defines the interactions between researchers, health services and patients to expedite the implementation of research findings into practice, to strengthen health services and to improve patient outcomes. It is about bridging the gap between evidence based research (what we know) and its use and implementation by health services (what we do). The Knowledge Translation Unit has developed, rigorously tested and implemented at provincial and national scale programmes that have helped to standardize and integrate healthcare delivered at primary level. At the core of these programmes are clinical practice guidelines that are evidenced-based, aligned with policy and regularly updated, and that use an evidence-based implementation strategy called educational outreach.

Associate Professor and Head:
L Fairall, MBChB PhD

Lung Clinical Research Unit
3rd Floor, University of Cape Town Lung Institute, George Street, Mowbray

The LCRU has been in existence from the beginning of the Lung Institute, and has gained international recognition for work done on asthma COPD drug and clinical management in addition to the epidemiology of lung disease in South Africa. The Unit’s strategic focus remains in three areas – airways disease drug evaluation, Poverty related respiratory disease and tobacco cessation, with a broad objective “to perform research and provide highly specialized services in the field of pulmonology, relevant to the needs of Africa”.

Research:
Research in the LCRU is in four distinct directions: Asthma and COPD drug development with Industry partners, Clinical research in COPD and non-tobacco COPD epidemiology and mechanisms, Clinical research in smoking cessation strategies and laboratory research in environmental exposures and infectious diseases (tobacco, indoor air pollution and pneumonia, tuberculosis).

Clinical service:
The Unit provides a dedicated world class clinical trial unit capable of conducting phase II-IV clinical trials including detailed respiratory physiology and radiology. The Unit houses a dedicated research laboratory focusing on tobacco and indoor air pollution and respiratory infection. The unit also serves as a referral centres for complicated asthma and COPD review for the public and private sectors.

Associate Professor and Head:
R van Zyl-Smit, MBChB MRCP UK Dip (HIV Management) MMED FCP SA Cert (Pulmonology) SA PhD

Lung Infection and Immunity Unit
University of Cape Town Lung Institute, George Street, Mowbray

The Lung Infection and Immunity Unit is a WHO-associated Center for Diagnostic Excellence. The group’s main research interests are the study of pulmonary regulatory immunological pathways in relation to infection, development and validation of rapid and field-friendly diagnostics for pulmonary infections, and outcome and intervention studies of drug-resistant tuberculosis.

The Lung Infection and Immunity unit has been associated with the University of Cape Town Lung Institute since 2009 and has conducted seminal studies into new diagnostics for tuberculosis. The unit has successfully managed and completed multiple national and international research grants and has published widely in the fields of tuberculosis immunology, new TB diagnostics and drug-
resistant TB. Prof Dheda’s team of experienced researchers conduct studies ranging from basic science to pragmatic clinical trials of new tuberculosis drugs.

**Holder of the SARChI Research Chair in “Lung Infection and Immunity in Poverty-related Diseases” Professor and Head:**

K Dheda, MBChB *Witwatersrand* FCP S.A FCCP PhD *London* FRCP London

**Senior Lecturer and Pulmonologist:**

R van Zyl-Smit, MBChB MMed PhD *Cape Town* MRCP UK FCP Dip (HIV Management) Cert (Pulm Phys) S.A

**Chief Research Officer Part-Time:**

G Theron, BScHons MSc PhD *Cape Town*

**Principal Scientific Officer:**

M Tomasicchio, BSc BScHons MSc PhD *Rhodes*

**Medical Officer and Clinical Trial Co-ordinator:**

M Pascoe, MBChB *Cape Town*

**Honorary Professor:**

TG Clark, BCom MSc *New Zealand* DPhil *Oxon*

**Honorary Associate Professors:**

R McNerney, CBiol PhD *UK*

K Steingart, MD PhD *USA*

**Honorary Research Associates:**

A Binder, PhD *Germany*

R Hendricks, BChD MChD *Cape Town*

**Laboratory Technologists:**

R Meldau, BScHons (Medicine) *Cape Town*

V Woodburne

**Medical Research Council (MRC) Unit on Risk & Resilience in Mental Disorders**

*Department of Psychiatry & Mental Health, University of Cape Town, and Department of Psychiatry, University of Stellenbosch.*

The Medical Research Council (MRC) Unit on Risk & Resilience in Mental Disorders was founded with the mandate of: 1) To strengthen and grow existing research and multi-disciplinary collaborations in mental disorders and mental health to improve health in South Africa and the region.; 2) To develop and expand new research programs specifically focused on translational research and new collaborations addressing major African mental disorders; 3) To provide a platform for the training and support of clinician-scientists working in the area of mental disorders and mental health, including women and African scientists; 4) To promote implementation of research findings from the fields of psychiatry and mental health into policy and practice.

**Professor and Head:**

DJ Stein, BSc (Medicine) MBChB *Cape Town* FRCPC PhD DPhil *Stell*
SAMRC/NHLS/UCT Molecular Mycobacteriology Research Unit

The SAMRC/NHLS/UCT Molecular Mycobacteriology Research Unit (MMRU) is based in the Institute of Infectious Diseases and Molecular Medicine (IDM) and forms the UCT node of the DST/NRF Centre of Excellence for Biomedical TB Research (CBTBR). Research in the MMRU is focused on aspects of mycobacterial physiology and metabolism that are of relevance to tuberculosis (TB) drug discovery and drug resistance, mycobacterial persistence and TB transmission. As recipient of several major grants from the South African government through the South African Medical Research Council, the National Research Foundation and the Department of Science and Technology, the Unit makes research capacity development a key focus of laboratory work. The Unit, which currently comprises senior scientists, post-doctoral fellows, PhD, MSc and Honours students, also participates in several major TB drug discovery consortia funded by grants from the Bill & Melinda Gates Foundation under the TB Drug Accelerator programme (SHORTEN) and the SAMRC through its Strategic Health Innovation Partnerships division. Other areas of research in the MMRU are funded by grants from the National Institutes of Health (USA) and the Research Council of Norway.

Professor and Director:
V Mizrahi, BScHons PhD Cape Town AfTWAS MASSAf FRSSAfOMS FAAS

Professor:
DF Warner, BCom BScHons PhD Witwatersrand

Research Officers:
M Chengalroyen, BScHons PhD Witwatersrand
C Evans, BScHons PhD Cape Town

Junior Research Fellow:
A Koch, BScHons MSc Witwatersrand PhD Cape Town

MRC/UCT Child & Adolescent Health Unit

The MRC Unit on Child & Adolescent Health undertakes translational research focused on priority childhood diseases including TB, pneumonia, HIV and the intersection of infectious diseases and non-communicable diseases such as asthma. Research integrates perspectives from basic, clinical and population science. A flagship study is a longitudinal birth cohort study, the Drakenstein Child Health study, to investigate the antenatal and early life determinants of child health, with a focus on childhood pneumonia, growth, development and the impact of early infection on chronic disease. This study is unique in integrating the impact of maternal factors, environmental exposures and childhood exposures with the development of child health in a low and middle-income country context.

Professor and Director:
HJ Zar, MBBCh FCPaeds BC Pediatr BC Pediatr Pulm USA PhD
MRC/UCT Drug Discovery and Development Research (DDD) Unit
Institute of Infectious Disease and Molecular Medicine (IDM), Wernher & Beit Building North

The MRC/UCT Drug Discovery and Development Research (DDD) Unit, amongst other things, focuses on:

- **Becoming a principal Drug Discovery and Development Research (DDD) Unit in South Africa, in Africa and internationally;**
- **Establishment of a scientific infrastructure as well as capacity for drug discovery and development of natural products in the broad sense using general biodiversity, including traditional medicines;**
- **Development of infrastructural and operational systems for new drug discovery and development, with special reference to natural product-guided medicinal chemistry as well as biological screening platforms against infectious and other diseases;**
- **Performing customised synthesis of compounds with important biological activities;**
- **Attracting young South African scientists, and scientists from elsewhere on the African continent, and in doing so to make a concerted effort at transformation and capacity building;**
- **Providing career development opportunities for mid-career researchers;**
- **The introduction of modern innovative drug-discovery tools including novel accessible screening;**
- **Enhancing the value of the identified therapeutics, by strengthening pre-clinical development capacity including the introduction of predictive (in silico and in vitro) drug metabolism and pharmacokinetic (DMPK) studies as reflected in the processes of Absorption, Distribution, Metabolism and Excretion (ADME).**

**Professor and Director:**
K Chibale, BScEd Zambia PhD Cantab FRSSAF

**Affiliate Members and Professors:**
KI Barnes, MBChB MMed Cape Town
TJ Egan, BScHons PhD Witwatersrand MSACI
V Mizrahi, BScHons PhD Cape Town AITWAS MASSAf FRSSAf OMS
ED Sturrock, BScHons (Medicine) PhD Cape Town FRSSAf (Fellow of UCT)

**Associate Professors:**
PJ Smith, BSc BScHons PhD Cape Town
D Warner, BCom BScHons PhD Witwatersrand
L Wiesner, PhD Cape Town

**Lecturer:**
S Sunassee, PhD Rhodes

**Drug Discovery and Development Scientist:**
D Taylor, BSc BScHons (Medicine) Cape Town

**Researchers/Affiliates:**
C Lategan, PhD Cape Town
S Schwager, MSc Cape Town

**Post-doctoral Fellows:**
M Njoroge, BSc BSc Pharm MSc Nairobi PhD Cape Town
E Pavadai, BSc MSc Madras MPhil Bharathidasan PhD Taipei
K Singh, PhD Guru Nanak Dev
**Principal Scientific Officer:**
T Kellerman, BSc BScHons Stell MSc Witwatersrand PhD Cape Town

**Scientific Officer:**
S Salie

**Laboratory Technologist:**
R Seldon

**Technical Officer:**
W Olifant

**UCT Human Genetics Research Unit**

*Room 3.14, Level 3, Wernher and Beit North, IDM*

The UCT Human Genetics Research Unit benefits from the strong history of excellent research within UCT’s Division of Human Genetics, and focuses its efforts on the genome research/clinic interface, building capacity as one of its major outcomes.

The envisaged expansion of the unit is focused in the areas of:
- developing a high throughput genetic analysis facility for the purpose of disease-genomic research;
- training researchers to map and identify genes which are of interest in and to our populations; and
- understanding the biology of such genetic elements by drawing on the expertise within the Institute of Infectious Diseases and Molecular Medicine on the Faculty of Health Sciences campus, and within other relevant institutions in the country.

The core expertise and resident functions in the Unit will ultimately include:
- Genetic study co-ordination which helps with the development and co-ordination of patient, family and population-based studies, and the design of such investigations;
- assistance with the development of diagnostic criteria and screening for specific research programmes;
- subject contact and collection of biological material;
- a high-throughput genetic analysis capability to carry out large-scale genotyping and sequencing to identify disease-predisposing elements in our populations.

**Professor and Director:**
RS Ramesar, BScHons MSc UKZN PhD Cape Town

**MRC/UCT Immunology of Infectious Diseases Research Unit**

*Room S1.27, Werner and Beit Building South*

The control and eradication of infectious diseases, leading cause of childhood and adult morbidity and mortality, is a high priority area for South Africa and the African continent. The unit investigates the underlying cellular and molecular immunological mechanisms for host protection or failure thereof in experimental murine models for human diseases like:
- Tuberculosis
- Leishmaniasis
- Helminthic diseases (bilharziosis)
- African trypanosomiasis (sleeping sickness)
- Allergy
- Ulcerative colitis
The Unit’s mission is to be relevant as an excellent multidisciplinary and international team, embracing both basic and applied research, in order to improve capacity, teaching and training in Immunology.

Professor and Director:
F Brombacher, PhD Freiburg

Medical Imaging Research Unit
Room 514, Anatomy Building

The late Allan Cormack, who won the Nobel Prize for Medicine in 1979 for his pioneering work on the computed tomography (CT) scanner, was the inspiration that led to the creation of MIRU. Professor Cormack was an alumnus of UCT who performed his research at Groote Schuur Hospital in the mid-1950s. The mission of the Unit is to conduct world-class research in medical imaging that specifically addresses the healthcare needs of Africa. The Unit has an interdisciplinary focus, attracting talented physicists, engineers, computer scientists and clinicians. Research in the Unit focuses on problems such as trauma, cancer, tuberculosis, cardiovascular disease, neuromuscular disorders, brain disorders, orthopedic disorders and the effects of alcohol abuse.

Professor and Director:
T Douglas, BScEng MBA Cape Town MS Vanderbilt MPhil Stell PhD Strathclyde

UCT Research Unit for Receptor Biology
Wernher and Beit Building North

The mission of the Unit is to study the structure and function of G protein-coupled receptors and to apply the research to understanding and treating diseases that have major effects on the social and economic welfare of South Africa. The Unit focuses on the gonadotropin-releasing hormone receptors and on the kisspeptin receptor, which are central regulators of reproductive function and, on the prostaglandin receptors and their role in cervical cancer. In addition, the Unit studies the polymorphism of EphA2, the host cell receptor for KSHV which causes Kaposi’s Sarcoma (KS) and the impact of the receptor polymorphism on KSHV infection and on KS susceptibility and severity among HIV-AIDS patients. Lastly, the Unit is studying a host cell receptor for the Human Papiloma virus the causative agent of cervical cancer.

Co-Directors:
AA Katz, PhD Weizmann Institute
RP Millar, BScHons MSc London PhD Liverpool

Neurosciences Institute (NI)
UCT Faculty of Health Sciences and Groote Schuur Hospital

The Neurosciences Institute (NI) was established in 2016 as a flagship interdisciplinary research in initiative of the University. The NI’s mission is to create a vibrant environment where clinicians, basic scientists and colleagues from other disciplines can share ideas about the human brain in health and disease, thereby accelerating scientific discovery and innovation.

Professor and Interim Director:
AG Fieggen, MSc MD FCS
**Research Centre for Adolescent and Child Health (REACH)**
Red Cross Children’s Hospital

REACH is a paediatric clinical research unit within the Faculty of Health Sciences, University of Cape Town, based at Red Cross War Memorial Children’s Hospital (RCH). Opened in October 2013, it follows a decade of successful clinical research at RCH. The centre comprises 50 staff members funded through grant support, is involved in the training of 48 postgraduate students (18 masters, 25 doctoral and 5 post-doctoral) and is host to several African healthcare professionals, building clinical and research capacity to improve child health in Africa. The research program is locally responsive, addressing national priorities such as HIV, TB and childhood pneumonia as well as globally relevant, fostering international, national and local collaborations. Directed by Prof Heather Zar, this centre is a remarkable partnership between RCH, the Western Cape Health Department and the Department of Paediatrics and Child Health, UCT.

**Professor and Director:**
HJ Zar, MBBCh FC Paeds BC Pediatr BC Pediatr Pulm USA PhD

**South African Tuberculosis Vaccine Initiative (SATVI)**
Institute of Infectious Disease and Molecular Medicine

The South African Tuberculosis Vaccine Initiative (SATVI) is a University of Cape Town-based tuberculosis research group housed within the Institute of Infectious Disease and Molecular Medicine, accommodating several disciplines including paediatrics, infectious diseases, epidemiology, public health, immunology and clinical/biological sciences. SATVI has a large and well-developed clinical field site in the Boland Overberg region, with the core on the premises of the Breuvelskloof TB Hospital in Worcester, from where most clinical/epidemiological studies and clinical trials of new TB vaccines are conducted. Clinical immunology research is led by Associate Professor Tom Scriba; and clinical trials research is led by SATVI Director, Professor Mark Hatherill.

SATVI has achieved international recognition as a world-leader in the evaluation of the safety, immunogenicity, and efficacy of novel TB vaccines. SATVI’s research mandate spans clinical vaccinology and TB immunology, including the search for correlates of risk for TB, correlates of vaccine-induced protection against TB, and most recently, application of TB biomarker tests for prevention of TB. The group’s focus on this research agenda has underpinned SATVI’s academic success, in terms of research funding secured, students graduated, and papers published.

SATVI has been extraordinarily productive in the clinical trials arena, having conducted 21 Phase I-IIb trials of nine novel TB vaccine candidates, among more than 4,000 research participants. Additionally, the group has enrolled more than 20,000 participants in observational and immunological TB studies and clinical trials of BCG vaccine. The SATVI postgraduate program has produced many PhD and Masters graduates since 2006. The group has a prolific publication output with a number of high-impact and highly cited papers in the fields of TB immunology, vaccinology, diagnostics and therapeutics.

**Professor and Director:**
M Hatherill, MD FCPaed

**Associate Professor and Deputy Director (Immunology):**
T Scriba, PhD
Chief Operations Officer:
M Kaskar, MBChB MBA Cape Town

Worcester Field Site Manager:
M de Kock, MPhil

**Structural Biology Research Unit**
*Institute of Infectious Diseases and Molecular Medicine, Wolfson Pavilion*

The Structural Biology Research Unit co-ordinates and promotes the experimental determination of biological structure at the University of Cape Town. The Unit is a grant funded entity, operationally located in the Integrative Biomedical Sciences Department in the Health Sciences Faculty. It employs staff, provides a home for post-graduate students and post-doctoral fellows and conducts research. It has members who are UCT academics and PASS staff who wish to conduct structural research and who are prepared to apply for grants to fund research in the Unit. The Unit also has affiliates, either from South Africa or abroad, who participate in the activities of the Unit in a variety of ways – including but not limited to: providing advice and expertise, exchanging materials, providing resources and using the resources of the Unit.

The visualization of the structure of biological objects ranging from cells to macromolecules with microscopic or atomic detail is essential for understanding how living systems work. The knowledge of the structures can be exploited to produce medicines and vaccines, ecologically friendly industrial processes and agricultural products. The unit specializes in determining structures experimentally by electron microscopy and X-ray crystallography and makes extensive use of computer-based modelling to extend the results. The unit has access to unique resources for the purification and preliminary characterization of proteins, cryo-electron microscopy and X-ray diffraction at a synchrotron beamline. It plays a pivotal role in South Africa’s BioEconomy strategy by providing the core expertise for establishment of the discipline of Structural Biology in the whole country and applying the technology to a wide range of problems of scientific, medical and industrial interest.

**Members:**
J Woodward, PhD Cape Town
BT Sewell, PhD London
ED Sturrock, PhD Cape Town
L Lubbe, PhD Cape Town
T Zininga, PhD Zululand
A Rabagliati, BA Eng Cantab

**UCT Leukaemia Unit**
*Room 6.06, Chris Barnard Building*

**Director:**
N Novitzky, PhD Cape Town FCP SA

**Researchers:**
L du Pisani, MBChB FPath (Haematology)
C du Toit, MBChB MMed UFS
R Mohamed, NDMedTech
S Mowla, PhD Cape Town
M Ntombogwana, MBChB FPath (Haematology)
J Opie, MBChB FCP SA
K Shires, PhD Cape Town
W van Schalkwyk, MBChB FCP Path (Haematology) MMed
Women’s Health Research Unit  
Level 3, Falmouth Building South

The Women’s Health Research Unit (WHRU) was established in the Faculty of Health Sciences at the University of Cape Town (UCT) in 1996. The Unit is involved in research, teaching and technical health service support in the area of women’s health and gender and health. It is made up of a multidisciplinary team of researchers with expertise in public health, epidemiology and anthropology. The overall aim of the Unit is to improve the health of women through research that informs policy and practice.

Senior Research Officer and Director:
D Constant, BSc (Physiotherapy) BScHons MSc (Medicine) MPH PhD Cape Town

Associate Professor and Deputy Director:
J Harries, BAHons MPhil MPH PhD Cape Town

Professor:
J Moodley, MBChB Natal MMed PhD Cape Town

Honorary Professors:
D Cooper, BSocSc BAHons PhD Cape Town
N Abrahams, MPH Western Cape PhD Cape Town
C Morroni, BA Harvard MSc Columbia MPH MBChB Cape Town PhD Columbia

Honorary Associate Professor:
C Mathews, BAHons MSc (Medicine) PhD Cape Town

Emeritus Associate Professor:
M Hoffman, BScHons (Medicine) MBChB DCM Cape Town
## ADDITIONAL INFORMATION

### FORMULAE FOR UNDERGRADUATE DEGREES WITH HONOURS AND DISTINCTION

[Subject to review and approval at time of print]

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<tr>
<td>PHY1025F Physics</td>
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<td>PPH1001F Becoming a Professional</td>
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<td>PPH1002S Becoming a Health Professional</td>
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<tr>
<td>HUB1006F Integrated Health Sciences Part I</td>
<td>8</td>
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<tr>
<td><strong>Maximum points for first year examinations</strong></td>
<td><strong>32</strong></td>
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<table>
<thead>
<tr>
<th><strong>SECOND YEAR</strong></th>
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<th>Upper 2nd</th>
<th>Lower 2nd</th>
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<tbody>
<tr>
<td>HUB2017H Integrated Health Systems Part IA</td>
<td>12</td>
<td>10</td>
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<td>LAB2002S Integrated Health Systems Part IB</td>
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<td>PPH2000W Becoming a Doctor Part IA</td>
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<td>SLL2002H Becoming a Doctor (languages) Part IB</td>
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<td>Special Study Module</td>
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<td><strong>Maximum points for second year examinations</strong></td>
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<tr>
<th><strong>THIRD YEAR</strong></th>
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<tr>
<td>LAB3009H Integrated Health Systems Part II</td>
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<td>PPH3000H Becoming a Doctor Part IIA</td>
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<td>SLL3002H Becoming a Doctor(languages) Part IB</td>
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<td>MDN3001H Introduction to clinical Practice</td>
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<td><strong>Maximum points for third year examinations</strong></td>
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<th><strong>FOURTH YEAR</strong></th>
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<tr>
<td>MDN4011W Medicine</td>
<td>12</td>
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<tr>
<td>AAE4002W Anaesthesia Part I</td>
<td>3</td>
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<td>1</td>
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<tr>
<td>OBS4003W Obstetrics &amp; Gynaecology</td>
<td>6</td>
<td>4</td>
<td>2</td>
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<tr>
<td>PPH4056W Health in Context</td>
<td>8</td>
<td>4</td>
<td>2</td>
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<tr>
<td>PRY4000W Psychiatry</td>
<td>6</td>
<td>4</td>
<td>2</td>
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<tr>
<td>MDN4015W Pharmacology&amp; Applied Therapeutics</td>
<td>4</td>
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<td>1</td>
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<tr>
<td><strong>Maximum points for fourth year examinations</strong></td>
<td><strong>39</strong></td>
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<table>
<thead>
<tr>
<th><strong>FIFTH YEAR</strong></th>
<th>First Year</th>
<th>Upper 2nd</th>
<th>Lower 2nd</th>
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<tbody>
<tr>
<td>CHM5003W Surgery</td>
<td>8</td>
<td>6</td>
<td>3</td>
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<tr>
<td>CHM5004H Trauma</td>
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### ADDITIONAL INFORMATION

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<th>Points 3</th>
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<td>CHM5005H</td>
<td>Orthopaedic Surgery</td>
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<td>MDN5008W</td>
<td>Dermatology</td>
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<tr>
<td>MDN5006W</td>
<td>Rheumatology</td>
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<td>1</td>
<td>0.5</td>
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<tr>
<td>CHM5007W</td>
<td>Neurology and Neurosurgery</td>
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<td>1</td>
<td>0.5</td>
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<tr>
<td>CHM5008W</td>
<td>Ophthalmology</td>
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<td>0.5</td>
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<tr>
<td>CHM5009W</td>
<td>Otorhinolaryngology</td>
<td>2</td>
<td>1</td>
<td>0.5</td>
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<tr>
<td>MDN5003H</td>
<td>Pharmacology &amp; Applied Therapeutics</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>OBS5000W</td>
<td>Gynaecology</td>
<td>4</td>
<td>2</td>
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<tr>
<td>PED5001W</td>
<td>Caring for Children</td>
<td>10</td>
<td>8</td>
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**Maximum points for fifth year examinations**: 40

### SIXTH YEAR

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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<tr>
<td>AAE 6000W</td>
<td>Anaesthesia Part II</td>
<td>3</td>
<td>2</td>
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<tr>
<td>MDN6000W</td>
<td>Medicine (including Allied Disciplines)</td>
<td>10</td>
<td>8</td>
<td>4</td>
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<tr>
<td>OBS6000W</td>
<td>Obstetrics</td>
<td>10</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>PED6000W</td>
<td>Paediatrics and Child Health</td>
<td>10</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>CHM6000W</td>
<td>Surgery</td>
<td>10</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>PPH6000W</td>
<td>Family Medicine and Palliative Medicine</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>PRY6000W</td>
<td>Psychiatry</td>
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<td>4</td>
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<tr>
<td>PTY6012W</td>
<td>Forensic Medicine</td>
<td>4</td>
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</table>

**Maximum points for sixth year examinations**: 59

Maximum points for clinical examinations (years 1 to 3) 110
Maximum points for clinical examinations (years 4 to 6) 138
Maximum overall points (years 1 to 6) 248

<table>
<thead>
<tr>
<th>Award</th>
<th>Criteria</th>
<th>Minimum Point Score</th>
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<tbody>
<tr>
<td>Distinction in the basic sciences</td>
<td>Student must score at least 80% of the maximum points for the preclinical examinations</td>
<td>88 out of 110</td>
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<tr>
<td>Distinction in the clinical sciences</td>
<td>Student must score at least 75% of the maximum points for the clinical examinations</td>
<td>106 out of 142</td>
</tr>
<tr>
<td>Award of degree with honours</td>
<td>Student must achieve an overall point score of at least 75% of the maximum overall points</td>
<td>189 out of 252</td>
</tr>
<tr>
<td>Award of degree with first class honours</td>
<td>Student must achieve an overall point score of at least 85% of the maximum overall points</td>
<td>214 out of 252</td>
</tr>
</tbody>
</table>

For students who transfer from other universities/faculties, an average will be allocated for their previous courses, based on achievement at UCT. “Repeat” results do not count.
Health and Rehabilitation Sciences:

**BSc Audiology and BSc Speech-Pathology:**
Degree with distinction calculation is based on the average of the marks obtained for all courses from the first to the fourth year of study. Distinction is awarded for an average of 75% - 100%.

**BSc Occupational Therapy:**
Degree with distinction calculation is based on the average of the marks obtained for all courses from the first to the fourth year of study. Distinction is awarded for an average of 75% - 100%.

**BSc Physiotherapy:**
Degree with distinction calculation is based on the average of the marks obtained for all courses from the first to the fourth year of study. Distinction is awarded for an average of 75% - 100%.
CLASS MEDALS, DEAN’S MERIT LIST AND PRIZES

[Note: Any student taking a course for a second time is ineligible for a prize or class medal.]

GENERAL NAMED PRIZES

BARNARD FULLER PRIZE For the best student qualifying for MBChB with first class honours.

FORMAN PRIZE For the undergraduate student who has made a special contribution to student affairs.

THE DEAN’S PRIZE For the top final year MBChB student.

PROFESSOR MARY ROBERTSON PRIZE FOR EXCELLENCE For the top female MBChB graduate.

PROFESSOR MARY ROBERTSON PROGRESS PRIZE For the graduating female MBChB student from a disadvantaged background who made the most progress over the six years of study.

STANLEY PHILIP NEUMANN MEMORIAL AWARD Awarded to the overall outstanding student completing the courses prescribed for semesters 3 to 5 of the MBChB programme.

ZALMEN ATLAS MEMORIAL PRIZE For the best student in the first year of the MBChB programme.

ZWARENSTEIN PRIZE For the best student in the first year of the MBChB programme.

NAMED PRIZES BY DEPARTMENT

DEPARTMENT OF ANAESTHESIA

PRISMAN PRIZE For two final year MBChB students submitting the best portfolios in Anaesthesia. This submission is voluntary. It will entail a detailed and comprehensive essay on all aspects of the peri-operative Anaesthetic management and issues of one of their surgical clinical case studies already included in their sixth year MBChB Surgery portfolio. A monetary prize will be awarded to the two best portfolios. The Department of Anaesthesia reserves the right to withhold the prize if the standard of the essays is deemed to be inadequate.

SA SOCIETY OF ANAESTHETISTS’ MEDAL For the best fifth year MBChB student in Anaesthesia.

DEPARTMENT (SCHOOL) OF CHILD & ADOLESCENT HEALTH

DOWIE DUNN MEMORIAL PRIZE Awarded to the best sixth year MBChB student in Paediatrics.
ADDITIONAL INFORMATION

DR I MIRVISH PRIZE
Awarded to the top student in fifth year MBChB Paediatrics.

DR KATHY CHUBB MEMORIAL PRIZE
For the final year MBChB student (preferably female) who has shown excellent overall performance in the fields of Paediatrics and Surgery, and recognised dedication to the practice of Medicine.

NESTLÉ PRIZE
For the best final year MBChB student in Paediatrics oral and clinical examinations.

DEPARTMENT OF CLINICAL LABORATORY SCIENCES

General

LAFRAS STEYN CLINICAL LABORATORY SCIENCES PRIZE
Awarded at the bi-annual research day for the best student oral presentation of the day.

Anatomical Pathology

B J RYRIE BOOK PRIZE
For meritorious work in Anatomical Pathology in third year MBChB.

R O C KASHULA PRIZE
For the best Anatomical Pathology essay in semester five MBChB.

Chemical Pathology

RAYMOND ZETLER BOOK PRIZE
For the MBChB student with the best examination results in third year Chemical Pathology.

Forensic Pathology

DIVISIONAL PRIZE
For the top student in LAB5008H Forensic Pathology

Haematology

H S EBRAHIM MEMORIAL MEDAL
Awarded on the results of the third, fourth and sixth year MBChB examinations on haematology, with the final result being decided by an oral examination if required.

Medical Biochemistry

MARK HORWITZ PRIZE
For the best MBChB student in Molecular Medicine (LAB3020W).

SANTILAL PARBHOO PRIZE
For the best Special Study module in Molecular Medicine.

Medical Microbiology

THE ARDERNE FORDER BOOK PRIZE
Awarded to the MBChB student who has shown the most improvement in Medical Microbiology (semesters 3 to 5)

Virology

GOLDA SELZER PRIZE
For achievement in Virology in second and third year MBChB Integrated Health Systems Parts IA, IB and II (HUB2017H, LAB2000S and LAB3009H).
DEPARTMENT (SCHOOL) OF HEALTH & REHABILITATION SCIENCES

Communication Sciences and Disorders (Audiology and Speech-Language Pathology)

A B CLEMONS AWARD
Awarded by the South African Speech-Language-Hearing Association for the student who obtains the highest mark for the research report submitted in the final year of study, provided that a minimum of 75% is obtained.

P DE V PIENAAR PRIZE
Awarded by the South African Speech-Language-Hearing Association to the student who maintained the highest academic standard over four years, with a minimum average of 75% throughout the programme.

SA ASSOCIATION OF AUDIOLOGISTS PRIZE
For the best clinical performance in Audiology.

SUSAN SWART PRIZE
To the best Audiology student who has maintained the highest academic standard over four years, provided a minimum average of 75% has been obtained throughout the programme.

THE SOUTH AFRICAN SPEECH-LANGUAGE-HEARING ASSOCIATION PRIZE
Awarded to the best final year student in Audiology: Clinical, provided an average of at least 75% has been obtained.

THE SOUTH AFRICAN SPEECH-LANGUAGE-HEARING ASSOCIATION PRIZE
Awarded to the best final year student in Speech-Language Pathology: Clinical, provided an average of at least 75% has been obtained.

Occupational Therapy

OCCUPATIONAL THERAPY ASSOCIATION OF SOUTH AFRICA (OTASA)
For the BSc Occupational Therapy student/s who presented the best final year research project.

PRACTICE LEARNING MERIT AWARD
For the best final year BSc Occupational Therapy student/s in fieldwork.

MARIÉ DU TOIT ANNUAL AWARD
For the BSc Occupational Therapy students who presented the best final year research project nationally, in the previous year.

Physiotherapy

JOHANNES KARL WILHELM BINNEWALD TROPHY
For the best final year student in clinical Physiotherapy.

Marilyn and Tim Noakes Award
For the BSc Physiotherapy student with the overall highest marks during second and third year clinical practical courses.

Paget Physiotherapy Shield
For the student achieving the highest academic standard during the four years of BSc Physiotherapy study.
PHYSIOTHERAPY THIRD YEAR SHIELD For the best overall student in third year BSc Physiotherapy.

SOUTH AFRICAN SOCIETY FOR PHYSIOTHERAPY TROPHY For the best overall student in final year BSc Physiotherapy.

DEPARTMENT OF HUMAN BIOLOGY

AW SLOAN PRIZE For the best performance in Integrated Health Sciences Parts 1 and 2 (HUB1006F and HUB1007S).

IONE SELLARS MEMORIAL PRIZE For the best student in Anatomy & Physiology II for Health & Rehabilitation Sciences. (HUB2015W).

KURT GILLIS PRIZE For the best performance in Fundamentals of Integrated Health Sciences Parts 2 (HUB1011F).

MR DRENNAN MEMORIAL PRIZE For the best student in HUB2017F and LAB2000S Integrated Health Systems Parts IA and Part IB in second year MBChB.

RICHARD WILLIAM SPENCER CHEETHAM PRIZE For the highest mark in the neuroscience component of LAB3009H Integrated Health Systems Part II.

UCT SURGICAL SOCIETY PRIZE For the second year MBChB student with the highest score in the Anatomy sections of OSPE and SAQ examinations throughout the year.

W A AND GORDON JOLLY PRIZES (3 awards) For the best practical performance in each of the following:

i. HUB2021S Integrated Anatomical and Physiological Sciences 2.
ii. HUB3006F General and Applied Physiology.
iii. HUB3007S Human Neurosciences.

DEPARTMENT OF MEDICINE

DR FRANCOIS MAJOS MEDAL For the top MBChB student in the fourth year Medicine.

DR HELEN BROWN PRIZE For the second best final year student in Clinical Medicine.

JIM MacGREGOR PRIZE For the medical undergraduate student who performs best in the Neurology course CHM5007W.

PROFESSOR NORMAN SAPEIKA AWARD For the best fifth year MBChB Pharmacology student.

SIDNEY STEIN DERMATOLOGY PRIZE For the sixth year MBChB student with the best overall results in Dermatology.
ADDITI0NAL INFORMATION

WILL-FRID EXNER BAUMANN MEMORIAL PRIZE
For the best results in final year Medicine in MBChB.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

CUTHBERT CRICHTON OBSTETRICS PRIZE
For the best student in Obstetrics in fourth year MBChB (OBS4003W).

CUTHBERT CRICHTON PRIZE
For the best student in Obstetrics and Gynaecology in the final MBChB examinations.

JAMES T LOUW PRIZE
For the best student in Gynaecology at the end of fifth year MBChB.

DEPARTMENT OF PSYCHIATRY AND MENTAL HEALTH

SA SOCIETY OF PSYCHIATRISTS’ AWARD
For the most distinguished final year MBChB student in Psychiatry (PRY6000W).

DEPARTMENT (SCHOOL) OF PUBLIC HEALTH AND FAMILY MEDICINE

FAMILY PRACTICE/PRIMARY CARE PRIZE
For the best student in final year MBChB Primary Healthcare.

SOUTH AFRICAN ACADEMY OF FAMILY PRACTICE
For the top student in final year MBChB Family Medicine.

ISADORE JACOB WALT PRIZE
For the best student in Primary Healthcare in fourth year MBChB (PPH4043W).

JOHN FLEMING BROCK PRIZE
For the best fourth year Public Health MBChB student. (PPH4013W).

DEPARTMENT OF SURGERY

General Surgery
BERK-SILBER PRIZE
For the best student in the final written Surgery examination – fifth year MBChB.

DR KATHY CHUBB MEMORIAL PRIZE (also listed under School of Child & Adolescent Health)
For the final year MBChB student (preferably female) who has shown excellent overall performance in the fields of Paediatrics and Surgery, and recognised dedication to the practice of Medicine.

FACULTY OF HEALTH SCIENCES SURGERY PRIZE
For the final year MBChB student who has shown the greatest promise in surgery in the final MBChB examination (the student with the second highest mark).

J H LOUW PRIZE IN SURGERY
For the most distinguished student in the final MBChB surgical examination (the student with the highest mark).

For a fifth year MBChB student who has demonstrated
MOFFATT MEMORIAL PRIZE  excellence in Surgery and an interest in the Humanities.

Neurosurgery
KAY DE VILLIERS PRIZE  For the best performance in Neurosurgery in CHM5007W

Ophthalmology
J S DU TOIT MEMORIAL PRIZE  For the winner of a competition in Ophthalmology open to fifth year MBChB students.
WELCH ALLYN S.A.  For the top student in Ophthalmology fifth year MBChB.

Orthopaedic Surgery
SMITH & NEPHEW  For the best overall fifth year MBChB student in Orthopaedic Surgery.
SYNTHES PRIZES  For the best fifth year MBChB Orthopaedic Surgery student in the final clinical examination.

Otorhinolaryngology
WELCH ALLYN S.A.  For the student obtaining the highest marks in the final ENT examination in fifth year MBChB.

Paediatric Surgery
J H LOUW PRIZE IN PAEDIATRIC SURGERY  For the best student in Paediatric Surgery in the final examination – fifth year MBChB.
SIDNEY CYWES PRIZE  For the best achievement in Paediatric Surgery in the final year of the MBChB programme.

Urology
DONAL BARNES PRIZE  For the best performance in an end-of-block viva examination and the Urology case report.

MEDALS

MBChB

Class medal for best overall performance in
PPH1001F Becoming a Professional, and
PPH1002S Becoming a Health Professional

Class medal for best overall performance in
HUB1006F Introduction to Integrated Health Sciences Part I, and
IBS1007S Introduction to Integrated Health Sciences Part II

Class medal for best overall performance in
HUB2017H Integrated Health Systems Part IA, and
LAB2000S Integrated Health Systems Part IB, and
LAB3009H Integrated Health Systems Part II
Class medal for best overall performance in Pathology components in
HUB2017H Integrated Health Systems Part IA, and
LAB2000S Integrated Health Systems Part IB, and
LAB3009H Integrated Health Systems Part II

Class medal for best overall performance in
PPH2000W Becoming a Doctor Part IA, and
SLL2002H Becoming a Doctor Part IB, and
PPH3000H Becoming a Doctor Part IIA, and
SLL3002H Becoming a Doctor Part IIB

Final year class medal for best overall performance in
PRY6000W Psychiatry

Final year class medal for best overall performance in
OBS6000W Obstetrics and Gynaecology

Final year class medal for best overall performance in
MDN6000W Medicine (including Allied Disciplines)

Final year class medal for best overall performance in
CHM6000W Surgery

Final year class medal for best overall performance in
PED6000W Paediatrics and Child Health

Final year class medal for best overall performance in
PPH6000W Family Medicine and Palliative Medicine

Gold medal for overall top performance throughout the MBChB programme

HEALTH & REHABILITATION SCIENCES

BSc Occupational Therapy:

(a) (i) A class medal to be awarded for best performance in each year of study (provided an average of 75% or above is obtained);
(ii) A class medal to be awarded for top performance in the following clusters:
• AHS3113W Foundation Theory for OT Practice I and AHS4119W Occupational Therapy Research & Practice Management.
• AHS3113W Foundation Theory for OT Practice I and AHS4120W Foundation Theory for OT Practice II.
• AHS3107W OT Theory and Practice in Physical Health, AHS3108W OT Theory and Practice in Mental Health, and AHS4121W Occupational Therapy Practice and Service Learning.

(b) Distinction for the degree: Overall average of 75% throughout all four years of study.

BSc Physiotherapy:

(a) (i) A class medal to be awarded for best performance in each year of study (provided an average of 75% or above is obtained);
(ii) A class medal to be awarded at the end of final year in the following three professional courses, provided a result of 75% or above has been obtained in each case:
- AHS4065W Clinical Physiotherapy III
- AHS4071H Applied Physiotherapy III
- AHS3076H Movement Science III

(b) Distinction for the degree: Overall average of 75% throughout all four years of study.

**BSc Audiology and BSc Speech-Language Pathology:**

(a) (i) A class medal to be awarded for best performance in each year of study (provided an average of 75% or above is obtained);
(ii) A class medal to be awarded for the best clinical performance in the following courses provided a result of 75% is obtained in each case:
- AHS3004H Clinical Speech Therapy II (third year BSc Speech-Language Pathology);
- AHS3008H Clinical Audiology II (third year Audiology);
- AHS4005H Clinical Speech Therapy IIIA and AHS4006H Clinical Speech Therapy IIIB (combined) (fourth year Speech-Language Pathology)
- AHS4008H Clinical Audiology IIIA and AHS4009H Clinical Audiology IIIB (combined) (fourth year Audiology).

(b) Distinction for the degree: Overall average of 75% throughout all four years of study.

**DEAN’S MERIT LIST**

**MBChB**
- All MBChB students in years 1 to 5 who have a full course load and with 75% or more for all courses will be acknowledged on the Dean’s Merit List (each year).

**HEALTH & REHABILITATION SCIENCES**
- All Health and Rehabilitation Science students in years 1 to 3 who have a full course load and 70% or more for all courses will be acknowledged on the Dean’s Merit list (each year).
- The name of the student in each discipline who is deemed to have made the most progress academically over the four years of study in each programme will be placed on the Dean’s Merit list.
GUIDE TO PROFESSIONAL BEHAVIOUR EXPECTED OF HEALTH SCIENCES STUDENTS
(INCLUDING USAGE OF SOCIAL MEDIA)

The general rules for students in the faculty states that “students doing clinical work are expected to act in accordance with the ethical norms laid down by the Health Professions Council of South Africa”. This guide sets out the behaviour expected of all health sciences students in their personal and professional lives and in the presence of patients and their families. The intention of the guide is to encourage students to maintain high standards in their personal and professional lives and to strive to uphold, in their behaviour, the high esteem in which health professionals are viewed.

UCT Faculty of Health Sciences aims to develop distinctive qualities in all its graduates. These qualities are based on the CANMeds Framework. The Faculty aims to produce Expert Health Professionals who have the qualities of:

- Communicator
- Collaborator
- Manager
- Health advocate
- Scholar
- Professional

The Faculty expects its students to:

- Learn the knowledge and understanding of the scientific, philosophical, ethical and legal principles underlying the practice of patient centred care and demonstrate the ability to apply that knowledge and understanding to problem solving in the health care environment;
- Acquire the ability to work as an effective member of a health care team through understanding and respecting the roles of other health professionals and work collaboratively through appropriate interprofessional and interdisciplinary relationships in the interests of delivering a high level of patient care; and
- Be committed to forming appropriate partnerships with patients through respecting their cultural, ethnic, age, gender, sexual orientation and socioeconomic origins in order to optimise their health and the care they are offered.
- The following areas of general behaviour, dress, academic and clinical training, relationships with patients, relationships with colleagues, clinical practice and social media are presented as a guide in developing professional qualities.

General Behaviour

1 Students need to be aware that their behaviour outside the clinical environment, including in their personal lives impacts on both their clinical and academic work and may have an impact on the confidence that their patients and their teachers have in them and their fitness to practice.

Students are expected to be polite, honest, compassionate and trustworthy and act with integrity. This includes being honest when conducting research, writing reports and logbooks signing attendance registers and when completing and signing forms. Students need to be aware of plagiarism and report it when observed in others.

Students need to be present and punctual for all formally arranged learning opportunities and assessments or provide medical or other valid reasons for their absences.
Dress

Students are expected to dress appropriately, particularly when they are in contact with patients. Students are expected to:

(a) Be tidy, clean and neat;
(b) Refrain from wearing very casual or inappropriate clothes (no bare midriffs, shorts, short skirts or slippers);
(c) Refrain from sporting hairstyles and jewellery that may offend patients and their families;
(d) Maintain a high standard of personal hygiene; and
(e) Wear uniforms or clean white coats where appropriate.

Academic and clinical training

Students need to take responsibility for their own learning and to maintain their learning and skills throughout their careers. This means that they need to keep up to date and practice as much as possible the skills that they are taught. Health sciences professionals learn through seeing procedures done, trying these skills under supervision or in a clinical skills laboratory and then practising the skills in a clinical environment under supervision until they are skilled enough to do these alone. Students are expected to gain as much clinical proficiency as they can.

Students are expected to:

(a) Attend all structured teaching and learning sessions (lectures, tutorials, clinics, ward rounds, after hours duties, laboratory sessions etc);
(b) Complete all assignments and written work on time;
(c) Show respect for the knowledge and skills of their teachers and others involved in their learning;
(d) Behave with courtesy towards teachers, administrators and support staff;
(e) Reflect on the feedback they are given about their behaviour and performance and respond appropriately;
(f) Respond to communication, whether this be in connection with patient care or their own education; and
(g) Give constructive feedback on the quality of their learning and teaching.

Relationship with patients

Health sciences students have extensive contact with patients and their families throughout the clinical years of their training. Patients generally look upon the students as part of the health care team. This places responsibilities upon the student to behave in a manner that earns the respect of patients.

Students are expected to:

(a) Be respectful, polite and considerate towards everyone including patients, their escorts, community members, staff and fellow students;
(b) Greet patients politely and address them appropriately being mindful of age differences and sensitive to the cultural context;
(c) Build relationships with patients and their families based on honesty, openness, trust and good communication;
(d) Maintain a professional boundary between themselves, their patients and anyone else close to the patient;
(e) Ensure that patients or their caregivers give their informed consent for any activity performed by the student on the patient;
(f) Ensure that they are adequately supervised when performing any procedures on patients;
(g) Be aware of the rights of the patient and respect the decisions made by
patients;

(h) Not unfairly discriminate against patients nor allow personal views to affect the treatment that they provide. (This includes views about ethnic origin, race, age, colour, culture, gender, sex, religious beliefs, political orientation, lifestyle, marital status, disability, sexual orientation, social and economic status etc).

(i) Ensure that they maintain patient confidentiality and not discuss the patient with anyone not directly involved in the patient’s care;

(j) Be aware of ethical issues in relation to the care of the patient;

(k) Ensure that they are clearly identified as students;

(l) Be aware of their own limitations in relation to the care of the patient and refer to their supervisors; and

(m) Ensure the protection of their own health when treating patients.

Relationship with colleagues

5 Teamwork is key to the work of the health professional. Health professional students have to be able to work effectively with their colleagues in order to deliver a high standard of care and ensure patient safety. Students need to develop skills to work in multi-disciplinary teams, offering respect for the skills of other members of the team and developing effective communication with all members of the health care team.

Clinical Practice

6 Being able to provide a high standard of clinical care is key to becoming a health professional.

Students are expected to:

(a) Recognise and work within the limits of their competence and ask for assistance when necessary;

(b) Be honest with patients and accurately represent their position as students;

(c) Ensure that they are appropriately supervised;

(d) Ensure that the treatment offered is based on clinical need;

(e) Be aware of scarce resources and not waste these;

(f) Maintain high standards of clinical practice;

(g) Raise concerns with the relevant authorities when clinical standards that could compromise patient or others safety are not upheld.

Social Media

7 Social media has grown phenomenally over the past few years. It has become common for health care professionals to use blogging, personal websites and online social networking in both their professional and personal lives. While social media is a useful tool, health professionals need to be aware of the risks, particularly to patient confidentiality and the blurring of professional and private boundaries that is posed by social media. Once information is posted on social media it is difficult and sometimes impossible to remove and can spread beyond an individual’s control. Inappropriate online activities can have a detrimental effect on relationships with colleagues, patients, employment prospects and personal integrity.

Be aware of:

(a) Maintaining confidentiality – do not post information about patients (living or deceased), colleagues or teachers on social media (even when names are removed) regardless if this communication is only meant for colleagues or other health professionals.
(b) Refraining from defaming others – defamation is the publication, declaration or broadcast of material that is capable of lowering a person in the estimation of others thereby damaging the reputation of the subject. Do not re-post material about others that can be defamatory. Do not post comments that can harm the reputation of colleagues or the profession or jeopardise your future as a health professional.

(c) Doctor-patient boundaries – social media allows patients to access information about health professionals’ personal lives that goes beyond what a normal patient/health professional relationship would allow. Be aware of what you post about yourself and your personal life. Be careful not to violate professional boundaries. Avoid online relationships with current or former patients.

(d) Your ethical and legal obligations to protect patient confidentiality.

(e) Professional boundaries: think carefully before “ friending” others, including employers, other health professionals, administrative staff, teachers and tutors and allowing them to access personal information. Don’t place staff members into an awkward position by requesting them to join your network.

(f) Be aware of the image you project of yourself online and how this can impact on your professional standing.

(g) Practical tips:
   - Protect your privacy – be careful what personal information you share with others, check your privacy settings regularly (please note even with privacy settings in place, it is possible to underestimate the number of people who can see your posts and how quickly it can be spread)
   - Consider the size of your audience – it is probably much wider than you think
   - Check who your friends are – ensure that you do not have patients as your friends. Check past posts and ensure that you have not made offensive comments in the past.
   - Check the groups you have joined – check the posts on the group to ensure that there are no offensive comments made or that the groups do not subscribe to racist, sexist, culturally insensitive or other such offensive or derogatory views.
   - Check your photographs – are there any that you would not like your patients or colleagues to see?

PROCESS TO INVESTIGATE REPORTED STUDENT IMPAIRMENT OR UNPROFESSIONAL CONDUCT

Introduction

In terms of its mandate to guide health professionals and to protect the public, the Health Professions Council of South Africa (HPCSA) is responsible for ensuring that practitioners are fit to practise. This means that the HPCSA will not licence an impaired person to practise.

The Health Professions Council Act and the associated regulations relating to impairment of students and practitioners oblige students, practitioners and faculties of health sciences to report impairment when observed in students or in fellow students or members of the health professions to the HPCSA. The HPCSA is required to consider any report it receives and to make a decision on the merits of the case.
Definitions

Impaired: The Health Professions Council (HPCSA) defines impairment as “a condition which renders a practitioner incapable of practising a profession with reasonable skill and safety”.

The University understands this to mean that an undergraduate student may be reported as impaired where he or she:

- has become physically or mentally disabled to such an extent that the student is unable to perform the clinical duties of his/her chosen profession or it is not in the public’s interest to allow that student to practise the profession;
- has become unfit to purchase, acquire, keep, use, administer, prescribe, order, supply or possess any scheduled substance;
- has used, possessed, prescribed, administered or supplied any substance contrary to prescribed regulations; or
- has become addicted to the use of any chemical substance.

Unprofessional conduct: The HPCSA defines unprofessional conduct as “improper or disgraceful or dishonourable or unworthy conduct or conduct which, when regard is taken to the profession of a person who is registered in terms of this Act, is improper or disgraceful or dishonourable or unworthy”.

The University understands this to include but not to be limited to:

- Failure to attend academic, clinical or clinical service commitments and continuing to be absent from academic or clinical commitments without permission.
- Unethical behaviour (e.g. deliberate misrepresentation or dishonesty, abusive or foul language towards teachers, fellow students or patients).

The Student Development and Support Committee is a Committee consisting of several academic staff members who identify, support and monitor the performance of students with academic and other difficulties.

In the event of a reported disability this Committee may seek advice from the Disability Unit or other expert body.

The Dean’s nominee will ordinarily be the Deputy Dean: Undergraduate Education.

IMPAIRMENT REVIEW PROCESS

1 An impairment, or any physical or emotional or behavioural problem that may be or become an impairment, must be reported by either the student, tutor, fellow student, course convener or clinician teaching the student to the Student Development and Support Committee (SDSC) or to the Dean’s nominee. If the matter is reported to the Dean’s nominee, the Dean’s nominee may refer it to SDSC in the first instance. The role of the SDSC will be to assess whether the student needs support and, if so, to try to provide this support.

If the matter can be resolved with appropriate support and reasonable accommodation, the SDSC will arrange this and no further action needs to be taken. In such a case the Dean’s nominee will arrange for the Faculty Manager to record the findings in a letter to the student, with such conditions for continued registration as the Dean, acting on behalf of the Faculty, may determine. SDSC shall continue to monitor the student.
If the SDSC deems it to be not a matter of supporting the student, it will refer the matter to the Dean’s nominee.

The Dean’s nominee will assess the report and, if he/she believes that there is reason to do this, he/she will ask the relevant year convener, or another appropriate staff member who teaches the student, to chair a Conveners’ Committee, at which all conveners teaching/convening courses for which the student is registered in that year, report on whether they deem the student to be impaired, and/or unfit to undergo training and/or practise the relevant profession.

The Chair of the Conveners’ Committee will record the findings of the Committee in a written report to the Dean’s nominee.

The Dean’s nominee, having received the report of the Conveners’ Committee, will decide whether to drop the matter, or, if he or she believes there is reason to proceed, shall:
(a) inform the student of the concerns and explain the process forward;
(b) appoint a senior academic staff member who does not teach the student, to chair an Impairment Review Committee of two or more academic staff members who do not teach the student in the current year.

The Impairment Review Committee:
(a) will provide the student with a copy of the report of the Conveners Committee and invite the student to submit a written response to it; assess the written report of the Conveners Committee and assess any written response by the student;
(b) may require the student to undergo a professional assessment by an independent healthcare professional or other expert (e.g. an expert who is knowledgeable about the skills required for the relevant discipline, or who can assess a psychiatric or a substance abuse problem, and who is not teaching the student in the current year).
(c) will consider the evidence and may, depending on the circumstances, interview the student, and then report its finding and the reasons for its finding in writing to the Dean’s nominee.

The Impairment Review Committee may decide that:
(a) the student’s registration will be cancelled with immediate effect in terms of the relevant Faculty rule/s; or
(b) there will be strict conditions for continued registration, with regular monitoring and with re-assessment by a due date, if necessary, after which a final decision about continued registration is taken; and/or
(c) the student’s impairment will be reported to the Health Professions Council of South Africa, at the time or, if appropriate, upon graduation.

If the finding of the Impairment Review Committee is that the student is unable to perform procedural skills or is unfit to undergo training and/or practise clinically as required by the profession, the Committee shall also report its decision about whether or not the outcome should be reported to the HPCSA.

The Dean’s nominee shall inform the student and provide the student with the finding of the Impairment Committee, orally and in writing. If the student was found unfit for training, the student’s registration is cancelled. The student is informed of the Committee's reasons and of the student's right of appeal to the Vice-Chancellor or nominee.
UNPROFESSIONAL CONDUCT

1. Any unprofessional conduct observed by a fellow student, tutor, course convener or other person shall be reported to the Deputy Dean.

2. The Deputy Dean shall, if he or she believes there is reason to do so,
   (a) ask the Year Convener, or another appropriate academic staff member, to chair a Conveners Committee (made up of the conveners of the relevant academic year of study and members of the Student Development and Support Committee) to discuss the reported conduct and make a recommendation as to whether the reported conduct should be referred to a Professional Conduct Review Committee; and/or
   (b) ask an independent academic staff member (who does not teach the student) to appoint a Professional Conduct Review Committee.

3. The Professional Conduct Review Committee (PCRC) shall comprise at least two senior academic staff members who are in the opinion of the Dean’s nominee able to act independently and objectively in their assessment of evidence from (amongst others) academic staff and the student concerned relating to the student’s alleged transgression of UCT, Faculty and HPCSA rules and regulations on misconduct and/or unprofessional behaviour.

4. The Professional Conduct Review Committee shall provide the student with a copy of the report of the Conveners Committee, if the matter has been considered by a Conveners Committee, and shall invite the student to respond in writing to this/these report/s.

5. The PCRC shall assess the evidence and record its finding and the reasons for its finding. The Committee shall on the basis of its finding decide a course of action with reasons in writing, namely that:
   (a) the student’s registration be cancelled with immediate effect in terms of the relevant Faculty rule/s; or
   (b) the student's action be referred for action under the rules on disciplinary jurisdiction and procedures; and/or
   (c) there be strict conditions for continued registration, with regular monitoring and with re-assessment by a due date, if necessary, after which a final decision about continued registration is taken; and/or
   (d) the student’s impairment be reported to the Health Professions Council of South Africa, at the time or upon graduation.

6. The student will be advised that he/she may appeal to the Vice-Chancellor or nominee against the findings of the PCRC.
AVOIDING PLAGIARISM: A GUIDE FOR STUDENTS

What is Plagiarism?
You commit plagiarism – intentionally or not – in written work when you use another person’s sentences, ideas or opinions without acknowledging them as being from that other person.

In academic work, researchers build on the ideas of others. This is a legitimate and accepted way of doing research. Plagiarism is using someone else’s ideas or words and presenting them as if they are your own. It is therefore a form of academic cheating, stealing or deception. Because plagiarism is an offence, all universities take a very serious view of anyone who is found cheating. Those who are suspected of having plagiarized will be referred to the Vice-Chancellor or nominee for possible disciplinary action in terms of the rules on disciplinary jurisdiction and procedures (DJP1.1).

Not all plagiarism is deliberate, but even inadvertent plagiarism will be severely penalized. It is therefore your responsibility to know what will be regarded as plagiarism and to know how to avoid it.

What makes plagiarism tricky to avoid and dangerous is that it can take many forms.

Forms of Plagiarism

Academic writing requires of you to discuss existing literature but at the same time to come up with your own ideas; to rely on the findings of other researchers, but also to say something new and original; to give an exposition of key readings on the topic, but to express it in your own structure and own words. It is academically difficult to manage a path between these seemingly contradictory demands.

Plagiarism can range from deliberate academic dishonesty to accidental academic sloppiness, and can range from serious and clear forms of plagiarism to instances that are less obvious.

Obvious forms of plagiarism include:

1. Buying or borrowing a paper and copying it.
2. Hiring someone to write the paper or thesis for you.
3. Cutting and pasting large portions of text from the web or from someone else’s paper or book without any quotation marks (or clear indentation for block quotes) or proper reference to the source. The ease of cutting-and-pasting from electronic sources makes this a form of plagiarism that is particularly widespread.
4. Word-for-word copying of a sentence, or paragraph without any proper acknowledgement.
5. Direct translation into English of a paper – or large sections of writing – written in another language.
6. Citing sources that you didn’t actually use.
7. Using substantive extracts from your own earlier work without acknowledgement.

Less obvious forms of plagiarism include:

8. Not giving proper credit to someone else’s ideas or findings. When is it proper to give credit and when not? As a general rule, you need to give a reference for any text, diagram, table, illustration or an idea if it comes from:
   a. a book, journal, website, or any other public medium;
   b. what someone has said in an interview you have conducted;
   c. someone’s personal correspondence in the form of a letter or email.
You don’t need to give a reference or give credit if the idea, text, diagram, table, illustration or idea comes from:

a. your own insights, work or experiences. Ideas from co-authored papers, however, still need to be acknowledged;

b. writing up your own field notes or lab reports;

c. “common knowledge”, common sense observations, well-established facts, historical events (but you would obviously have to give a reference if you use an historical document) and myths. It is, of course, difficult to know exactly when something is “common knowledge”, but a general rule to follow is: if the same observation is made in multiple sources without any attached references, or if it is something that the general public is well aware of, then no references are needed.

9 Improper paraphrasing.
The rule to “put it in your own words” is not always helpful, because many of the accepted key words in academic discourse have precise meaning or are accepted expressions that you shouldn’t change. However, whenever you do written work you must distinguish what you have written from what you are paraphrasing or quoting. To paraphrase is to summarize someone else’s ideas in your own writing style, sentence structures and, where applicable, own words. This is a particularly demanding task for writers whose first language is not English.

10 Failing to give a proper reference
You may copy word for word (but not significant chunks), and you are expected to build on the ideas of others, but then you must give proper credit to the source of the quotation or the paraphrased argument, idea or reasoning.

11 Not acknowledging outsourcing of substantive data analysis
You may have someone else do the descriptive statistics or statistical data analysis for you, but you need to acknowledge the extent to which it is not your own analysis. In cases where the statistical analysis (model fitting or estimation) forms the central thesis, instead of just being a minor section, or where the thesis is in a discipline that requires you to demonstrate this skill of analysis, it is unacceptable to outsource it, even if you do acknowledge it.

How to Avoid Plagiarism

When you start reading and taking notes, carefully distinguish between material that is quoted, material that is paraphrased in your own words and own structure, and material that is your own and expressed in your own words. The way you can distinguish between these different types of sources is to use a different colour for each one, or to put a big Q for “quote”, P for “paraphrase” or M for “mine” after the relevant section. Make sure that you keep scrupulous track of the author, year, title, and page from which you are taking the quote. There are numerous electronic tools that can assist you with this, such as RefWorks and Mendeley. (See section on “resources” below.)

1 Fully reference and acknowledge the work of others
While academic staff will teach you about systems of referencing, and how to avoid plagiarizing, you too need to take responsibility for your own academic career. Knowing how to give proper credit, cite appropriately, and acknowledge the original source and reference accurately is an essential step in avoiding plagiarism. There are numerous referencing conventions and you are expected to use a referencing convention that is accepted in your discipline. There are many guides on how to reference properly. See “Referencing Conventions” below for resources and guides.

2 Use your own expressions and present your work in your own writing style
It is tempting to use someone else’s elegantly structured phrase or sentence/s, but doing so without proper quoting (acknowledging your use of their exact words) constitutes plagiarism.
It is not enough to change just a word here and there when paraphrasing; you need to use your own sentence constructions. Of course, there are accepted key words in specific academic discourses that have precise meaning or are accepted expressions; you shouldn’t try to put these precise and commonly accepted expressions in your own words.

3 Organise your work and structure your reasoning in your own way
Don’t merely give properly acknowledged summaries of other people’s work (paraphrasing), develop your own sequence of reasoning and line of argumentation.

4 Use TURNITIN
Turnitin is an internet-based service that checks the extent of unoriginal content in your paper or thesis. It will identify all the parts where you have copied text from elsewhere. Where you have acknowledged doing so with direct quotes, that is acceptable. Of course, you should not have too many direct quotes since you are required, after all, to demonstrate your own academic writing and critical thinking skills. Identified copied content that is not acknowledged is plagiarism and you must reword and restructure these identified sections. Note that Turnitin is not a guarantee that there is no plagiarism – it is only a guide. See more about Turnitin here.

Note that you should not submit the same re-worked draft multiple times because the system will then compare your new version with the earlier one you submitted and indicate a very high unoriginality score.

UCT Rules and Senate Policy

RULES ON CONDUCT FOR STUDENTS (Student Rules - Academic conduct)

RCS2.4 A student:
(a) must refrain from dishonest conduct in any examination, test or in respect of completion and/or submission of any other form of academic assessment. Dishonest conduct includes but is not limited to plagiarism;
(b) may not submit the work of any other person in any examination, test or in respect of the completion and/or submission of any other form of academic assessment without full and proper attribution and acknowledgement.

RULES FOR DEGREES (Rules relating to examinations – Examination sessions and class tests)
G18.12 Dishonesty, including plagiarism or the submission by a student of other people's work as his/her own, in an examination or any other form of assessment will be dealt with in terms of the disciplinary rules.

SENATE POLICY
Senate policy (PC11/99 dated 6.12.1999), sets out the following:
(i) For each course, academic staff must prescribe a referencing convention, or allow a student to choose from a set of referencing conventions prescribed by the academic staff member (and by implication must teach this key academic literacy skill to junior students) when setting assignments; and
(ii) All undergraduates are required to make and include a declaration each time they submit written work for assessment.

Declaration

Each time your work is assessed, you will need to insert the declaration (see shaded block) or one like it.
Plagiarism Declaration:

1. I know that plagiarism is a serious form of academic dishonesty.
2. I have read the document about avoiding plagiarism, am familiar with its contents and have avoided all forms of plagiarism mentioned there.
3. Where I have used the words of others, I have indicated this by the use of quotation marks.
4. I have referenced all quotations and properly acknowledged other ideas borrowed from others.
5. I have not and shall not allow others to plagiarise my work.
6. I declare that this is my own work.
7. I am attaching the summary of the Turnitin match overview (when required to do so).

Signature:

Declaration to be included in your thesis

In the front of your thesis, a signed and dated declaration in the following format must be included:

Declaration

I, ........................................, hereby declare that the work on which this thesis is based is my original work (except where acknowledgements indicate otherwise) and that neither the whole work nor any part of it has been, is being, or is to be submitted for another degree in this or any other university. I authorise the University to reproduce for the purpose of research either the whole or any portion of the contents in any manner whatsoever.

Signature: ........................................ Date: ........................................

Referencing conventions

The responsibility is on your lecturer to ensure that you are (or become) familiar with, and observe, one of the internationally recognised guides to scholarly conventions on presentation, documentation of sources and referencing. It is your responsibility to question any part of this that you do not understand, to apply the rules, and to be aware of the consequences of plagiarism.

There are many ways of referencing, and the University has not set one way as preferable to another. The Library and Writing Centre, however, recommend one of the following forms:

- the Harvard system
- American
- Modern Language Association (MLA) or
- Footnoting

They also have a standard for referencing articles in electronic journals.

For advice and guides on referencing see:

UCT Library Referencing Help:
http://libguides.lib.uct.ac.za/refworks
and
http://www.lib.uct.ac.za/research-help/referencing-help/
and
If you are confused because each lecturer tells you to reference your work in a different way, discuss this with him or her.

**Consequences of plagiarising**

By committing plagiarism you will get zero for the plagiarised work, and may fail the course or your thesis. In addition, the matter must be referred to the Vice-Chancellor or nominee for possible disciplinary action in terms of the rules on disciplinary jurisdiction and procedures (DJP1.1) against you.

If this is the case, and the plagiarism is substantial, the Registrar has indicated that, unless there are unusual circumstances, the prosecution will ask for your expulsion. Even if you are not expelled, a conviction for cheating on your academic record is likely to limit your career opportunities. If you are preparing for a profession, you should know that a conviction for cheating in academic work may bar you from professional licensing temporarily or permanently.

**Web-based information and resources**

There are many sites and guides on the internet regarding plagiarism.

Video on how to avoid plagiarism: [https://www.youtube.com/watch?v=2XUPZ9jx4gs](https://www.youtube.com/watch?v=2XUPZ9jx4gs)

*A Student’s Guide to Avoiding Plagiarism* (UCT Philosophy department): this handy and concise resource looks at forms of plagiarism, gives tips on how to avoid it and provides some examples.

UCT Faculty of Health Sciences Guide A site listing different referencing conventions and guide to Turnitin

UCT information on RefWorks

Information on APA referencing convention

Guide on the Harvard referencing convention

UCT Writing Centre on referencing

UCT writing Centre on postgraduate writing

UCT Writing Centre on resources in grammar

The UCT Senate policy declaration on plagiarism

Turnitin services – Student Guide

Contact the Vula Team for further support: help@vula.uct.ac.za or 021-650 5500
**Assistance for staff and students**

The Library Staff, the Writing Centre and the Office for Research Integrity are willing to assist you, by providing details of referencing conventions, and helping you use them.

UCT Library staff for general queries about referencing:  
Amina Adam; Jen Eidelman; Cyrill Walters

UCT Library staff for queries about RefWorks:  
Dilshaad Brey; Dianne Steele; Gill Morgan; Khumbulele Faltein

UCT Library staff for queries about Mendeley:  
Tamzyn Suliaman

Research Ethics:  
Dr Robert McLaughlin (UCT Office for Research Integrity)

UCT Writing Centre  
[http://www.writingcentre.uct.ac.za/writing/talk/contacts](http://www.writingcentre.uct.ac.za/writing/talk/contacts)  
Tel: 021 650 5021

**POLICY ON TUBERCULOSIS FOR UNDERGRADUATE HEALTH SCIENCES STUDENTS**

**Reducing the risk of tuberculosis in undergraduate Health Sciences students**

South Africa is at the centre of the HIV and tuberculosis pandemics. The lifetime risk of tuberculosis for individuals with latent TB infection (up to 60% of the South African population) in non-HIV-infected persons is approximately 10%, increasing to >10% per year in HIV-infected persons. Hence, the approach to reducing your risk of tuberculosis is intimately linked to knowing and acting upon your HIV status.

1. **Know your HIV status**

   All students within the University of Cape Town should be offered counselling and testing for HIV infection. Any student who will have contact with patients or will work in a hospital, community health centre or clinic environment must have undergone counselling and education surrounding the issues of HIV testing.

2. **Minimising risk of tuberculosis transmission in the workplace**

   Due to the massive burden of tuberculosis in South Africa, students working in a healthcare environment will be unable to avoid contact with tuberculosis patients at all times. It is, however, impractical to wear protective masks continuously. The following measures will be enforced to reduce risk:

   2.1 **Education**

      2.1.1 All health sciences students will be specifically educated as to the risks of acquisition of TB and as to the preventive measures which should be taken to minimize such risks. Record of such education will be a prerequisite before any patient contact.

      2.1.2 All health sciences students will be made aware of the common symptoms associated with tuberculosis – that is, cough, night sweats, loss of appetite and loss of weight.
Students should be encouraged to seek medical advice from UCT’s Student Wellness Service or any other health facility of their choice if these symptoms occur.

2.2 Risk avoidance

2.2.1 Students must if at all possible avoid contact with patients who are known to have multi-drug resistant (MDR) or extensively drug resistant (XDR) pulmonary tuberculosis. Students must NOT enter an isolation cubicle accommodating a patient with MDR or XDR pulmonary tuberculosis or one accommodating a patient with extrapulmonary MDR or XDR tuberculosis, where pulmonary involvement has not been ruled out.

2.2.2 Students will not receive bedside teaching from medical staff using patients known to have MDR or XDR pulmonary tuberculosis.

2.2.3 Students whose immune systems are compromised

Students who are immunocompromised for whatever reason (HIV-infected, on long-term immunosuppressant’s such as corticosteroids or methotrexate, have cancer, are struggling with stress and poor nutrition, etc) are encouraged to discuss their health with UCT’s Student Wellness Service or any other health facility of their choice. There is a vital role for isoniazid preventive therapy (IPT) for some of these students (e.g., those with a positive tuberculin skin test) and, for those who are HIV-infected, antiretroviral therapy may be indicated.

2.3 Risk reduction through personal protective wear – masks

2.3.1 When masks are to be worn

All health sciences students should be required to wear a mask in the following high-risk environments:

2.3.1.1 When in contact with:

- patients with an unexplained cough,
- formally identified pulmonary TB patients presenting for the first time or confirmed drug-sensitive tuberculosis patients who have not been on anti-tuberculosis treatment for ≥ 2 weeks;

2.3.1.2 When entering or working in an induced sputum cubicle (of specific relevance to physiotherapy students).

2.3.2 Type of mask to be worn

Surgical masks are ineffective as a means of reducing tuberculosis acquisition. Students must, therefore, wear an N95 (or FFP3) particulate filter mask (respirator).

2.3.3 Fit-testing

All health sciences students must have a once-off fit-test to determine the correct type and size of mask for their face, thereby ensuring a proper fit. The outcome of each student’s fit-test will be recorded for future reference.
The fit-testing process will include instructing the student on how to use the mask correctly. They must be informed of at least the following:

- 2.3.3.1 that facial hair (notably beards) disrupt N95 mask efficiency and therefore that facial hair removal is advisable – students who choose to wear a beard nonetheless must understand that the N95 mask will be less efficacious;
- 2.3.3.2 that they must check the integrity of the mask every time they use it;
- 2.3.3.3 how to put the mask on and take it off;
- 2.3.3.4 that they must disinfect their hands before and after putting the mask on and taking it off;
- 2.3.3.5 that care must be taken not to squash the mask;
- 2.3.3.6 that under normal working conditions an N95 mask can remain effective for at least 8 hours of continuous use. Mask efficacy is reduced if they become torn or moist. If the N95 mask is used only intermittently then it can be effective for 1-4 weeks, depending on the frequency of use;
- 2.3.3.7 that used masks must be disposed of by being discarded in a medical waste box.

### Provision and distribution of masks

2.3.4.1 The FHS will provide students, as needed, with free access to supplies of the N95 mask that fits them throughout the period of their undergraduate studies. Students should not obtain N95 masks from hospital wards as these are often in short supply for healthcare workers and visitors.

2.3.4.2 At sites where there is a UCT-employed Site Coordinator, Site Facilitator or Facility Manager, this person will be responsible for supplying students with masks as needed. At all other sites the distribution of masks will be the responsibility of the Lecturer, Clinical Educator or Supervisor responsible for the students concerned.

2.3.4.3 The Faculty’s provision of masks will be administered by the office of the Health Teaching Platform Coordinator.

### Students with TB

3.1 Any student diagnosed with TB is urged in the strongest possible terms to ensure that they know their HIV status in order to ensure optimal treatment.

3.2 A student who is found to have TB is also strongly encouraged to confidentially advise the Student Development and Support Office of their TB status in order to enable the Faculty to help ensure that s/he receives whatever support and essential treatment and follow-up are needed.
3.3 In the case of drug-sensitive pulmonary TB, a student should stay out of class and out of the work environment for two weeks after diagnosis and commencement of treatment. With pulmonary MDR-TB, while the final decision will be in the hands of the attending doctor, generally a return to class and work should be allowed once they have sputum converted – that is, established to be culture-negative on two occasions from sputum taken one month apart.

3.4 The Student Development and Support Office will maintain a confidential record of all students who have reported their diagnosis of TB in order to help ensure that such students are appropriately managed throughout their illness.

3.5 Reporting: The Head of the Faculty’s Student Development and Support Portfolio will monitor infections on the basis of confidential student TB statistics made available to him/her monthly by the Student Development and Support Office. If there are sudden changes in incidence, s/he can initiate an investigation – including consultation with the Head of the Division of Infectious Diseases and HIV Medicine – with a view to preventing further infections.

UCT HEALTH SCIENCES FACULTY E-LEARNING AND E-TEACHING POLICY

[Only appendices applicable to students are displayed below, for the full policy please see http://www.healthedu.uct.ac.za/elearning/overview.]

Appendix A - Use of Electronic Devices

A.1 Definition
Electronic devices include cell phones (including smart phones), computers (laptops, notebooks, netbooks, and handhelds), mp3 and other digital audio and video players (including DVD players), and analogue and digital audio and video recording devices (still and movie cameras). Recordings include any format which may be done by any electronic device including videos, images and sound.

A.2 Application
This policy is applicable to students and other individuals who attend courses and lectures offered by the Faculty of Health Sciences. This also includes ward rounds, bedside teaching and interactions which happen in medical facilities. No part of this policy is intended to conflict with established policies of University of Cape Town or a student's right to due process as stated in the Code of Student Conduct or the Student Handbook.

A.3 Background
There are a number of electronic devices which are available to students and which they bring where teaching happens and when they interact with patients. The Faculty considers teaching to be a special time for focused engagement between educators and students. This includes teaching which happens in lectures, tutorials and bedside teaching. Electronic devices are often an impediment to such focused engagement and under no circumstances should students use electronic devices to make unauthorised recordings without the necessary permission.

A.4 Rationale
The usage of personal electronic devices in teaching can hinder instruction and learning, not only for the student using the device but also for other students. Usage of an electronic device for activities unrelated to teaching tends to distract the student using the device, and is distracting and disrespectful to his/her neighbours and the educator. Both teaching and learning are thus
undermined. In addition it is unethical to record patients or information related to patients in any format, whether video, images or audio with explicit written consent.

A.5 Classroom teaching
Electronic devices are allowed in the classroom only for the purposes of course instruction. The use of personal computers and other electronic devices in the classroom is a privilege which may be withdrawn at the discretion of the educator.

In all cases, when permission has been granted by an educator for the use of an electronic device in the classroom, the student shall employ such device solely in a manner appropriate to the coursework and avoiding distractions or interruptions to fellow students or the educator. For example where permission has been given for the use of a device for personal note-taking, it may only be used for this sole purpose and not noisily to the extent that others are distracted by it.

The educator has the discretion to grant either individual or a blanket approval or prohibition for the use of one or more types of electronic devices in the classroom. If the latter then it is each student’s responsibility to ensure that all cell phones and electronic devices such as PDAs, pagers, instant message devices, games, other handheld devices and laptop computers are turned off and stowed in a secure place during class.

The educator reserves the right to withdraw a previously granted approval for the use of an electronic device, on an individual or blanket basis, if in the educator’s best judgment continued use of such a device detracts from the effectiveness of the classroom learning environment.

A student with a diagnosed disability must present to the educator the appropriate paperwork from the Undergraduate Office so that special accommodation can be made for the use of an otherwise prohibited electronic device. Other exceptions are medically necessary assistive devices, approved emergency communications and warning devices operated by authorized law enforcement officers, fire-fighters, emergency medical personnel or other emergency personnel. Such individuals must present the educator or the Undergraduate Office with the necessary paperwork confirming such status or information.

The educator should include in each course syllabus a statement establishing under what conditions electronic devices may be used in the classroom, and the manner in which a violation of the educator’s rules of use of such devices shall be addressed. In case of a change in status of an electronic device in the course of the semester, the educator should update the course syllabus as appropriate.

It is expected that access to the internet will be off during class unless the educator specifically authorizes it for class-related purposes. Use of cell/smart phones during class time is always prohibited, as is leaving the room to answer or make a call.

A.6 Patient information
Under no circumstances should electronic devices be used when dealing with patients except for purposes of taking personal notes. Using such devices to record interviews of patients, images of patients whether still or video without explicit written consent is not allowed at all.

A.7 Violations
Any behaviour determined as inappropriate use or distractions resulting from the use of electronic devices may result in a warning, dismissal from class for the day of the infraction, a reduction in the grade for the class, or referral to the Undergraduate Office. Violating the ethical, privacy and confidentiality rights of patients may result in more serious consequences.
Appendix B - Appropriate use of Computing Facilities

B.1 Introduction
Computing and networking play increasingly important roles in teaching, research, and administration. The Faculty anticipates many benefits from the use of information technology by students and staff. UCT maintains computing and networking facilities for the purpose of conducting and fostering the teaching, research and administration activities of the Faculty. To maximize the usefulness of Computer Facilities, UCT provides access in the most open manner permitted by the owners or providers of the Computing Facilities.

B.2 Prohibited activities
The following activities involving use of Computer Facilities are prohibited:
- Transmitting unsolicited information which contains obscene, indecent, lewd or lascivious material or other material which explicitly or implicitly refers to sexual conduct.
- Transmitting unsolicited information which contains profane language or panders to bigotry, sexism, or other forms of discrimination.
- Transmitting information which threatens bodily harm or which intimidates another person or organisation.
- Communicating any information concerning any password, identifying code, personal identification number or other confidential information without the permission of its owner or the controlling authority of the computer facility to which it belongs.
- Creating, modifying, executing or retransmitting any computer program or instructions intended to gain unauthorized access to, or make unauthorized use of, a Computer Facility or Licensed Software.
- Creating, modifying, executing or retransmitting any computer program or instructions intended to obscure the true identity of the sender of electronic mail or electronic messages, collectively referred to as "Messages", including, but not limited to, forgery of Messages and/or alteration of system and/or user data used to identify the sender of Messages.
- Accessing or intentionally destroying software in a Computer Facility without the permission of the owner of such software or the controlling authority of the Facility.
- Making unauthorized copies of Licensed Software.
- Communicating any credit card number or other financial account number without the permission of its owner.
- Effecting or receiving unauthorized electronic transfer of funds.
- Violating the provisions of copyright, particularly on software, data and publications.
- Broadcasting email messages indiscriminately to all users of a computing facility, the broadcasting of messages concerning the use of a facility by the manager of a facility being a specific exception.

Appendix C – Social Media

C.1 Introduction
The growing popularity of social networks such as Facebook (FB) and Twitter provides increasing connectivity for Employees and Students in their personal and professional communications. Although there are clear benefits, frequently the potential risks are not fully appreciated. Information management ought to be introduced into curricula in the early years.

C.2 Online identity and relationships
Online communication blurs the traditional professional and personal boundaries. Even when privacy is anticipated, the online environment needs to be considered as a public space. For instance conversations with Friends on FB remain in FB permanently and are retrievable by others. The permanence of postings provides a significant indication of a person’s character. Social media contributions may have a positive or negative impact on future job applications.
Comments made online in social spaces can be detrimental to the person and to others. For example thoughts and behaviours may be appropriate in a social setting yet indicate unprofessional behaviour from a practitioner’s perspective.

Information tends to be permanent and durable. Defamation of others or an institution may lead to detrimental consequences. A conscious awareness of the possible harm to the reputation of colleagues must be clarified. Links can be made even when there is no obvious connection. For instance a derogatory comment about a colleague may be tracked. Previous postings can provide clues to identify that person.

C.3 Patient relationships
Confidentiality needs to be respected online too. Health professionals hold an implicit social contract with society to be leaders. Improper disclosure of information related to the health of individuals or quality of care in facilities can be harmful. Any images, video or audio clips need to be used with full consent.

C.4 Refer to
- Quote on a slideshare at http://www.slideshare.net/SuzanneHardy/amee2011-workshop-3phardybrown-slides “Many medical students seem unaware of or unconcerned with the possible ramifications of sharing personal information in publicly available online profiles even though such information could affect their professional lives”.

STUDENT TRANSPORT POLICY

1 Purpose
All students registered for professional degrees in the Faculty of Health Sciences (FHS) are required during the course of their studies to visit and to do work at a range of off-campus learning sites. These sites are mostly within greater Cape Town while some are further afield.

The purpose of this policy is to set out a framework for how students will travel between the FHS campus and the institutions and communities in which they are required to do work as part of their formal academic programme. Such a framework will clarify student responsibilities, FHS responsibilities and shared responsibilities.

2 Principles
The policy is informed by the following underlying principles:
- Academic need and relevant educational outcomes
- Equity (with reference to transformation)
- Duty of care (with reference to safety and security)
- Needs of the academic programme and relevant educational outcomes
- Time efficiency
- Cost-effectiveness
- Flexible transport solutions
- Shared responsibility (University/Faculty and students)
- Transport provided only if booked
- University-funded transport is a centrally-coordinated Faculty function
- Accessibility to students with disabilities
3 Transport options

Given that students’ transport needs are highly variable and diverse, they can only be met by using a combination of different transport solutions within a flexible system.

Transport solutions that are potentially available to students and FHS include the following:

- Walking
- Cycling
- Public transport
- Own car
- Lift provided by a fellow-student
- Lift provided by a staff member
- Partner-owned vehicle (partners including government and NGOs)
- Jammie Shuttle
- FHS-owned vehicle driven by an FHS-employed driver
- FHS-owned vehicle driven by an FHS staff member other than a driver
- FHS-owned vehicle driven by a student (one of the group being transported)
- Hired vehicle driven by a staff member
- Hired vehicle driven by a student (one of the group being transported)
- Bus with a driver provided by an external (‘outsourced’) service provider

4 Responsibilities

In keeping with students’ responsibility for their own learning, it is in the first instance individual students’ responsibility to be where they are required to be for the purposes of both on-campus and off-campus learning activities. Where students elect – or, as in some cases, are required – to use Faculty transport, it is their responsibility to comply with the conditions under which such transport is provided – for instance, booking each trip needed, timeous arrival at the place from which the transport will depart, etc.

The Faculty for its part takes responsibility for giving students as much assistance with their programme-related transport needs as funding allows. In giving effect to this commitment the Faculty undertakes further to make whatever decisions and choices are required with reference to the principles listed in (2) above.

5 Own transport arrangements

Students are in general encouraged to make their own transport arrangements where this is practical, whether this involves walking, cycling, using public transport, driving their own car or accepting a lift from a fellow student or staff member.

Students who make their own transport arrangements are alone responsible for ensuring that they present themselves where they are required to be and do so on time.
Whatever mode of transport students use – including transport provided by the Faculty/University – it is at the individual student’s own risk.

Students who use their own car, must note that at certain facilities there will not be sufficient on-site parking to enable them to park within the facility’s premises. Students are expected to respect that those who work at such sites on a regular basis enjoy priority access to whatever on-site parking is available. At certain sites – e.g., Khayelitsha (Site B) Community Health Centre – this precludes the use of students’ private cars because there is no suitable parking available outside the facility’s premises either.

6

Faculty-provided transport for fieldtrips and other non-routine purposes
To enable the Faculty to plan optimal use of its transport budget, by the end of June each year conveners of courses that during the following year will involve student travelling to, from and/or within off-campus teaching/learning sites, will submit to the Faculty Transport Committee (see Section 10 below) a schedule of non-routine trips for which they request the provision of transport. With such a schedule Cours Conveners will provide the following:

- A motivation for how such off-campus teaching/learning adds value to the curriculum;
- The location of the sites where students will be required to present themselves;
- The target enrolment for the course;
- Estimated numbers of students who will require the transport requested where this is expected to differ from total enrolment.

The Faculty will respond to such requests, if possible, by the end of August of the year in which the request is made and draw up a provisional transport plan for the following year.

Where the transport requested is approved, the Course Convener will submit confirmation of all relevant details of such transport to the Faculty Transport Office by the end of the third week of January in the year that the transport is required. Such details must include confirmation of the precise destinations to which students will need to be transported, the dates or days of the week on which they need to be transported, by what time on those days they must reach the specified destination and at what time they must be picked up and returned to campus.

Students planning to make use of Faculty-provided transport for fieldtrips and other non-routine purposes may be required to book their place on such transport as per the procedure set out in Section 7 below.

7

Faculty-provided routine transport
The Faculty will routinely provide the following transport as booked by students:
(a) on weekdays during the day to and from teaching sites along set routes determined by the Faculty as advised by the Faculty Transport Committee;
(b) every night including on weekends a single pick-up between 22h00 and 23h00 for students on-call at GF Jooste, New Somerset, Red Cross Children’s and Victoria Hospitals.
Students will be responsible for booking places on each trip for which they elect to utilise FHS-provided transport.

- In the case of weekday, daytime transport, bookings must be made in advance via the FHS Transport Vula site.
- In the case of night transport, bookings must be made – again in advance – by messaging or calling the night transport cell phone.

Places on the buses will be reserved exclusively for students who have booked a place for themselves following the procedures set out above. Students who neglect to book transport are responsible for finding their own way to and from the relevant learning site.

When travelling back to campus on FHS-provided buses, students will be responsible for ensuring that they are at the pre-arranged pick-up points on time. In the event of something beyond their control happening such that they are unable to make it to the pick-up point on time, it will be their responsibility to contact the driver concerned or, failing this, a relevant staff member on campus. Whenever possible, such contact should be made before the scheduled pick-up time.

Where students fail without good reason to present themselves on time at the relevant pick-up point, it will be their responsibility to find their own way back to campus.

Where students have not managed to present themselves on time at the relevant pick-up point through no fault of their own, a driver may be requested by an authorised FHS representative to fetch the students concerned, particularly in instances where the students’ safety might be at risk. However, if this situation arises in the latter part of the afternoon such that the driver making a special trip to collect a student who has missed their bus, would arrive back on campus later than 17h00, a special trip will not as a rule be approved and the student concerned will be responsible for finding their own way home.

Safety and personal physical integrity

The University regards the safety and physical integrity of every student as of paramount importance.

The University recognises at the same time that there are inevitable and unavoidable occupational health and safety risks associated with training to be and practicing as a healthcare professional.

Thus, the FHS:
(a) will not require students to travel to and work within sites where the risk of physical harm is known to be unreasonably high;
(b) will provide students with clear directions to the sites where they are required to be present;
(c) will endeavour to prepare students with information and skills to keep themselves as safe as possible en route to and within all off-campus learning sites;
(d) will seek to ensure that all University and University-commissioned vehicles used to transport students to and from, as well as within, off-campus learning sites – both those owned by the University and those hired for this purpose – are roadworthy and appropriately registered and licensed;
(e) will seek to ensure that the drivers of such vehicles – whether University employees, students or those whose services are hired for this purpose – have valid, unendorsed licenses;

(f) will in the event of an accident, hijacking or any other form of criminal assault or theft, provide affected students with whatever support it can within the means at its disposal;

(g) will in the event of FHS-provided transport being delayed or having to be cancelled as a result of a vehicle breaking down, an accident, roadworks, unanticipated traffic or an external service provider failing to arrive as contracted, communicate what has happened, to the staff members responsible for the affected students at the sites where they are being expected – this will be the responsibility of the driver concerned as assisted, when necessary, by the Faculty Transport Supervisor, the Faculty Operations Manager or another member of Faculty staff.

9

Insurance

The University does not have the financial resources to provide students with more than limited insurance cover.

The UCT Student Handbook No.3 states as follows:

“The University provides no cover for personal possessions, including motor vehicles, even when a student may be involved in compulsory academic activity. The University does not accept liability for any personal items that may be stolen or damaged”.

Regarding personal accident insurance, the same Student Handbook states:

“The University operates a Group and Funeral Cover Insurance Scheme, which aims to supplement students' private medical aid or insurance schemes in the event of UCT-related accidental injury. Participation is compulsory and the premium is included in the academic fee”.

The maximum benefits under the Group and Funeral Cover Insurance Scheme include R25 000 for medical expenses where the student is involved in an official field trip for academic purposes.

It is recommended that students arrange for their own medical aid cover as well as insurance cover for personal accidents, including motor vehicle accidents, and loss, theft or damage of personal possessions.

10

Governance and implementation

The organisation and funding of student transport in the FHS will be centralised Faculty functions. To ensure that its provision is as cost effective as possible, no transport for students that is to be paid for using university – that is, departmental or faculty – funds may be commissioned other than through, or with the written consent of, the Faculty Transport Office.

Implementation and monitoring of this policy will be the responsibility of the Deputy Dean: Undergraduate Education as advised by a Faculty Transport Committee constituted as a sub-committee of the Clinical Teaching Platform Committee.
The FTC will consider all proposals pertaining to the provision of transport by the Faculty and make recommendations in the light of this policy to the Clinical Teaching Platform Committee and the Deputy Dean: Undergraduate Education.

The Faculty Transport Office will keep statistics of student usage of the transport provided, with a view, in particular, to ensuring that HEQSF levels of transport provision are aligned as closely as possible with levels of actual usage. Further, to inform regular reviews of this policy, detailed statistics will be kept of journeys made both by FHS and outsourced vehicles, destinations served, distances covered and numbers of students conveyed as identified by course. The coordination of the collection of these statistics and their analysis will be the responsibility of the Faculty Operations Manager.

**FACULTY MISSION STATEMENT**

The Faculty’s mission is to:
- Respond to the healthcare needs of South Africa and beyond.
- Educate health professionals, educators and scientist for life.
- Undertake research that is relevant to the needs of our country and beyond.
- Promote health equity through promoting health professional standards in the delivery of quality healthcare.
- To be socially responsive to the needs of the people of our country and beyond.
- To develop interventions to reduce the risk of ill health, disability and mortality.

**FACULTY OF HEALTH SCIENCES CHARTER**

*Adopted by the Faculty on 9 May 2002*

**Preamble**

Post-apartheid South Africa is emerging from decades of systematic discrimination that affected every aspect of society, including the health sector, resulting in profound inequities in health status in the population. Central to the reconstruction of South African society is the need to develop a culture of human rights based on respect for human dignity and non-discrimination.

Although there were significant attempts by staff, students and the institution to resist apartheid injustices, UCT was not immune to the racist, sexist, and other discriminatory practices and values that typified society under apartheid. As UCT grapples with transformation, we remain burdened with the legacy of these discriminatory practices.

To overcome this legacy of apartheid and other forms of discrimination, the UCT Health Sciences Faculty has produced this Charter as a basis for transformation of the institutional culture of the Faculty to ensure that students and staff have access to an environment where they are able to realise their full potential and become active participants in the academic life of the Faculty.

**Principles**

*Non-discrimination*

The Faculty will not tolerate any form of negative discrimination and will uphold the University's policy on non-discrimination.

*Supportive culture*
The Faculty will foster a supportive culture, where diversity and difference is respected, in order to encourage students and staff to reach their full potential in their activities of learning, working, teaching, research and service in the Faculty.

**Capacity-building**
The Faculty will strive to develop the skills of its employees and help to build the skills base of South Africans, in particular formerly disadvantaged South Africans, through various strategies at its disposal.

**Employment Equity**
The Faculty will strive to attract and retain talented black professionals by recognising their abilities, affirming their skills and ensuring an environment that is welcoming and supportive.

**Facilitation of learning**
The Faculty will strive to uphold and encourage the highest standards of teaching to create an atmosphere conducive to learning for all students.

**Research**
The Faculty will strive to uphold the highest ethical standards of research and ensure that research seeks to benefit the South African community.

**Service**
The Faculty will strive to ensure that students and staff uphold the highest standards of service to the community, including commitments to ethical principles and human rights.

**Consultation**
The Faculty will strive to consult with staff and students on major policy changes that may be undertaken by the Faculty and that affect them, and will seek to entrench transparency in its workings.

**Monitoring and evaluation**
The Faculty will endeavour to review its performance annually in the light of this Charter.

**Community participation**
The Faculty will strive to ensure participation of the community in decisions in the spirit of the Primary Healthcare Approach adopted by the Faculty as its lead theme.

**FACULTY OF HEALTH SCIENCES DECLARATION**
*(For all graduating students)*

At the time of being admitted as a member of the healthcare profession:
I solemnly pledge to serve humanity.
My most important considerations will be the health of patients and the health of their communities.
I will not permit considerations of age, gender, race, religion, ethnic origin, sexual orientation, disease, disability or any other factor to adversely affect the care I give to patients.
I will uphold human rights and civil liberties to advance health, even under threat.
I will engage patients and colleagues as partners in healthcare.
I will practise my profession with conscience and dignity.
I will respect the confidentiality of patients, present or past, living or deceased.
I will value research and will be guided in its conduct by the highest ethical standards.
I commit myself to lifelong learning.
I make these promises solemnly, freely and upon my honour.
DISTINGUISHED TEACHERS IN THE FACULTY

Students may nominate (to the Registrar's office) academic staff for UCT's Distinguished Teacher Awards. Faculty of Health Sciences staff who have received Distinguished Teacher Awards are:

2017  Professor Pradeep Navsaria (Surgery)
       Professor Robert Dunn (Surgery)
2014  Professor Delawir Kahn (Surgery)
2010  Associate Professor R Eastman (Medicine)
2010  Professor Z van der Spuy (Obstetrics & Gynaecology)
2007  Dr I A Joubert (Anaesthesia)
2005  Dr M Blockman (Pharmacology)
2004  Associate Professor V Burch (Medicine)
       (Also received the National Excellence in Teaching and Learning Award from the Council for Higher Education and the Higher Education Learning and Teaching Association of South Africa in 2009)
2003  Associate Professor G Louw (Human Biology)
2003  Dr P Berman (Chemical Pathology)
2002  Associate Professor J Krige (General Surgery)
2001  Dr C Slater (Human Biology)
2000  Associate Professor A Mall (General Surgery)
2000  Professor D Knobel (Forensic Medicine)
1998  Professor MFM James (Anaesthesia)
1993  Professor J de Villiers (Neurosurgery)
1989  Professor EJ Immelman (General Surgery)
1988  Associate Professor G R Keeton (Medicine)
1987  Dr C Warton (Anatomy & Cell Biology)
1985  Professor A Forder (Medical Microbiology)
1984  Dr AH Robins (Pharmacology)
1982  Professor W Gevers (Medical Biochemistry)
1981  Professor R Kirsch (Medicine)
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