

# Master of Public Health Programme Brochure: 2023

Welcome to the Master of Public Health Programme at the University of Cape Town.

The School of Public Health is a multidisciplinary department in the Faculty of Health Sciences. We are committed to the concept of a healthy population having equitable access to resources and highly competent health care professionals to achieve a better quality of life. Our guiding values include Openness, Social Engagement, Mutual Respect, Social justice and Lifelong Learning.

# Master of Public Health (MPH) Programme Convenors 2023

#### **Programme Convenor**

Professor Landon Myer, BA (Brown), MA, MBChB (Cape Town), MPhil, PhD (Columbia)

#### Assistant Convenor (Health Economics track)

Dr Lucy Cunnama, BSc (Hons) (Cape Town), MPH, PhD (Cape Town)

#### Assistant Convenor (Health Systems track)

Associate Professor Jill Olivier, BA (Hons), MPhil, PhD (Cape Town)

# Assistant Convenor (Community Eye Health track)

Dr Deon Minnies NHDMedTech, NDMedTech (CPUT), MPH, PhD (Cape Town)

# Assistant Convenor (Social & Behavioural Sciences track)

Associate Professor Lucia Knight, BSc, MPopStuds, PhD (LSHTM, UK)

# Assistant Convenor (Epidemiology & Biostatistics track)

Professor Landon Myer, BA (Brown), MA, MBChB (Cape Town), MPhil, PhD (Columbia)

# **Assistant Convenor (Environmental Health track)**

Professor Hanna-Andrea Rother, BA, MA, PhD (Michigan State)

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#### INTRODUCTION

This brochure provides details for students regarding specific aspects of the UCT MPH programme. It also may be used to assist prospective candidates in deciding whether the UCT MPH programme suits their needs.

A coursework plus dissertation Master of Public Health has been offered in the Faculty of Health Sciences since 1999. It is offered as a multidisciplinary Public Health degree and is based on established strengths at UCT, resulting in an emphasis on epidemiology & biostatistics, health economics, health systems & policy, social & behavioural sciences and environmental health.

Degree candidates from a variety of backgrounds will acquire knowledge and skills to assist them to contribute towards an effective and equitable health system based on population- and individual-level approaches.

There are six specialised **tracks** or **streams**: *Epidemiology & Biostatistics*, *Health Systems*, *Health Economics*, *Community Eye Health*, *Social & Behavioural Sciences*, and *Environmental Health*. Each of these has its own course requirements though requirements and electives overlap considerably across tracks.

The programme is taught as a series of semester length **courses** (sometimes called **modules**) some of which are compulsory for the degree and others elective. The flexible course structure enables collaboration with different departments at UCT and other institutions.

- For all tracks (other than Health Economics), candidates will need to complete 10 courses plus a mini-dissertation, achievable in approximately 18 months of full-time study or longer with part-time study.
- Health Economics track candidates will need to complete 8 courses plus
  a mini-dissertation, achievable in 18 months of full-time study or longer
  with part-time study.

#### Specific track requirements:

- For an Epidemiology & Biostatistics specialisation, the candidate must have completed the required courses (see page 69) and a minidissertation in the field of Epidemiology and/or Biostatistics. There are also pass mark minima on certain courses within the track required for progression to higher level courses.
- For a Health Economics specialisation, the candidate must have completed the required courses (see page 71) and a mini-dissertation in the field of Health Economics.
- For a Health Systems specialisation, the candidate must have completed the required courses (see page 73) and a mini-dissertation in the field of Health Systems.
- For a Community Eye Health specialisation, the candidate must have completed the required courses (see page 78) and a mini-dissertation in the field of Community Eye Health.
- For a Social & Behavioural Sciences specialisation, the candidate must have completed the required courses (see page 80) and a minidissertation in the field of Social and Behavioural Sciences.
- For an Environmental Health specialization, the candidate must have completed the required courses (see page 83) and a mini-dissertation in the field of Environmental Health.

Note that all applications to the UCT MPH must go via the University's central admissions process, and can be completed online:

http://www.uct.ac.za/apply/applications/forms/

#### 1. BACKGROUND AND DEGREE OBJECTIVES

#### 1.1 What is Public Health?

Public Health is the collection of disciplines that seek to promote health and prevent morbidity and mortality, using a population or community as the unit of understanding and intervention.

- This is in contrast to other disciplines in the health sciences that may focus on the individual patient, or even the organ or organ system, as the primary focus.
- This is also in contrast to other disciplines in the sciences or humanities that
  focus on the population or community but may have a less explicit intention
  of ameliorating health states.

As part of this, there is a strong emphasis in public health on understanding the individual psychosocial, socioeconomic, environmental and structural determinants of health, in addition to biomedical understandings.

In Public Health, major areas of activity include:

- the measurement and analysis of states of health (including disease, injury and well-being) at an individual and population level;
- the prevention of disease and/or promotion of health in individuals and groups of people through a variety of activities;
- and the fostering of equity, efficiency and effectiveness in the provision of health care services and in health systems more generally.

Importantly, Public Health does not focus on a single set of diseases but can encompass the range of health conditions and health-related behaviours that influence morbidity and mortality at a population level.

In addition, the epidemiological and biostatistical concepts and methods that are at the core of Public Health can also be applied to address *clinical questions* regarding the aetiology, presentation, management and course of disease.

#### 1.2 Target candidates

The UCT MPH programme was originally developed to help professionals already on career paths to advance their skills, opportunities and effectiveness in their current or future positions. To this end the programme was designed to support *part-time* study. However, a large number of candidates attend on a *full-time* basis. In addition to academic and work history, the selection process places value on experience in public health related (or clinical) work.

In the past, successful candidates have included:

- Individuals interested in different aspects of health-related research and/or service delivery, including clinical researchers and environmental health practitioners;
- University graduates in Medicine and in the Allied Health Sciences wanting to broaden their skills and fill roles beyond professional boundaries, or to develop specific research skills;
- Non-health science graduates, e.g. from the physical and biological sciences; social sciences; commerce; journalism and media; engineering; and/or environmental sciences, who want an entry point into the health sector and/or to strengthen their activities in their own disciplines;
- Health sector managers and health professionals responsible for running health programmes or services, for whom a public health perspective is important.

The distinction between full-time and part-time candidates is flexible and based on the number of modules taken per semester and thus the overall time required to complete the degree. Typically, part-time students take 1-2 modules per semester, and full-time students take 3-4 modules per semester, though there is no fixed rule in this regard. All students, whether full-time or part-time, are required to attend the modules for which they are registered and complete all assignments on time and in full.

# 1.3 Non-degree candidates

Individual courses are open, subject to any limitation on numbers and candidate suitability, to students from other postgraduate degrees at UCT as well as to individuals who want single-semester courses not for degree

purposes. Such **non-degree candidates** may register for a maximum of three courses and must pay full course fees. Non-degree candidates routinely apply for entry into the MPH degree programme and, if accepted, transfer course credits towards the full degree.

In all cases, candidates are encouraged to contact the course convenors involved and need to apply to the programme administrator. If accepted as a non-degree candidate, students would still need to apply online to UCT and confirm your application with the post graduate office.

## 1.4 Perspectives and skills

Perspectives emphasised in the course are:

- An appreciation of diverse, population-based approaches to thinking about human health and its determinants, as well as health services and health systems;
- An ability to ask focused questions related to health and disease in individuals and populations, as well as to apply critical thinking and conduct high-quality research to answer such questions;
- An ability to use evidence in different forms to inform different types of interventions to improve population health;
- An appreciation of the social, environmental and economic determinants of health and health services;
- An appreciation of the goal of achieving greater equity in health, health services and health systems development; and,
- Scholarship that helps to address real-world problems.

In addition to track-specific skills and abilities, cross-cutting attributes that the programme seeks to promote across courses and tracks include:

- Critical thinking and problem-solving skills
- Creative thinking and innovation
- Ability to work in teams and adapt to diverse health concerns
- Academic and scientific communication & leadership
- Engagement with and responsiveness to societal issues.

#### 1.5 Outcomes

Across tracks, graduates should emerge with certain generic skills and perspectives, including: population, interdisciplinary and systems thinking on health and health care; different kinds of research skills; an understanding of the political, economic, environmental and cultural basis of health determinants, health services and health policy; the ability to critically evaluate evidence related to health and health care; the ability to translate evidence and research findings for policy making; and the ability to advocate for specific health-related policies or practices.

Graduates could be employed in any sector with health functions, including but not limited to health services or related organizations (whether in the public or private sector), academia, research, finance, labour, community-based groups and non-governmental organisations. While the focus of the UCT MPH is on strengthening the public health workforce for South Africa and the continent, increasingly careers in public health are international in scope.

In such jobs, graduates would perform functions with a population, systems or organisational focus, including: setting up, managing and/or supporting health-related services or programmes; developing health-related strategies and/or policies; evaluating health services or programmes; carrying out and reporting on health research; and/or conducting training and support related to health promotion and health care. Some graduates entering the programme from clinical backgrounds will continue to provide clinical services with greatly enhanced research and population perspectives. Others may build on skills learned to pursue a career in research or academia.

# 2. CURRICULUM REQUIREMENTS AND ORGANISATION

#### 2.1 Time commitment

The programme may be taken part-time or full-time. The programme does not currently provide for distance learning candidates and residence in Cape Town is a requirement. Courses and other learning activities expect regular attendance at face-to-face meetings in Cape Town. Candidates may choose to undertake the programme while living outside of Cape Town but take responsibility for their studies noting that this is not a distance learning degree.

The projected formal commitment for the degree is a minimum of 1800 "notional" hours divided approximately as follows:

# Epidemiology & Biostatistics, Health Systems, Community Eye Health, Social & Behavioural Sciences and Environmental Health tracks:

- Classroom/Practicals: 320 hours (~ 32 hours per course);
- Formal assignments, reading, course project work: 880 hours (~88 hours per course outside the classroom);
- Mini-dissertation: 600 hours (at a minimum, or ~4 months full-time for the entire mini-dissertation process, noting that this is often spread out over a longer period).

#### **Health Economics track:**

- Classroom/Practicals: 260 hours (~32 hours per course);
- Formal assignments, reading, course project work: 700 hours;
- Dissertation: 900 hours (minimum)

Note that these are notional hours, and do not necessarily reflect actual time commitments involved which may be more or less in different circumstances.

While the coursework component of the degree can be completed in 2-3 semesters for certain tracks, the minimum time to completion of the degree is highly unlikely to be less than 18-24 months. Candidates are encouraged to aim to complete their coursework and dissertation within 24 months, but some may

elect to take three or four years for this. The University expects that the degree will be completed within four years. A fifth year of registration is allowed, and registration to complete the MPH over longer periods requires special consideration from the programme convenor and postgraduate office.

### 2.2 Entry requirements

*Minimum* entry requirements are:

- An appropriate 4-year Bachelors course, 4-year Honours course or any degree recognised by the University Senate as equivalent;
- Evidence of adequate quantitative, language and critical thinking skills as judged by the selection panel;
- A formal test of English proficiency is required of applicants from non-English speaking countries (see page 18).

Please note that these are minimum requirements and the number of applications received each year greatly exceeds the number of positions available for incoming students.

### 2.3 Diversity of backgrounds

Candidates with training other than in the health sciences, e.g. biology, environmental sciences, law, psychology, anthropology or statistics, are strongly encouraged to apply for admission. Course combinations and teaching will to some extent take this diversity of background into account.

Numeric and writing skills may be tested before and/or after admission for diagnostic purposes. Teaching assistants are available in some courses but candidates with deficiencies in numeracy and/or writing skills may be requested to seek additional tuition at their own expense. The University also provides writing skills support (see page 21), and candidates may be referred to the UCT Writing Centre after assessment of their written English.

# 2.4 Degree structure

The building block of the degree is the *course* (also called a *module*): a self-contained one-semester course, which might require pre-requisite courses to be completed. The degree programme consists of 10 courses (or 8 for the

Health Economics track), including *core* and *elective* courses, plus a research-based mini-dissertation. Each course consists of approximately 32 classroom hours, plus approximately 88 hours of independent reading, studying and assignments.

Most courses are offered annually. The University reserves the right to cancel any course if there is insufficient demand, or to change the timetabling of any course. Numbers for a course may also be capped in certain instances, for example, to prioritize students for whom a given course is *core* over those for whom that course is an *elective*.

Courses are usually taught as a half-week *block* (14-16 hours) plus eight or nine 2-hour sessions spread through the semester. Block (whole day) teaching will take place during February/March (Semester 1) and in July/August (Semester 2), from 8h30 - 16h00 daily. *Note that both semesters of the MPH start earlier than other programmes in the University.* The semester sessions for each course take place every 1-2 weeks on Monday-Thursday afternoons during the semester. Semester sessions take place in one of two 2-hour sessions, usually held either from 13.30 to 15.30 or 16h00 to 18h00. Courses may be scheduled to other time slots and this will be communicated by the individual course convenors.

The MPH degree is suitable for students who are working on either a part-time or full-time basis. However, students who are working while in the MPH programme should clear attendance commitments with their employer in advance for the whole programme, including study leave and examinations.

# 2.5 Outside Electives (See page 61)

# 2.6 Graduation requirements, degree time limits and degree certificates

A total of 10 courses (8 in the case of Health Economics track candidates) successfully completed are required for the degree, plus a pass on the mini-dissertation. Upon graduation, the specialisation track is inscribed on the degree certificate, in parentheses after "Master of Public Health".

#### 2.7 Mini-dissertation

The *mini-dissertation* (so named because it is substantially shorter than the full-length dissertation that is standard in dissertation-only Master's degree programmes) carries one-third of the weighting of the degree (50% in the case of Health Economics track candidates).

Candidates will be required to complete a mini-dissertation in a research area related to their track. The candidate will be expected to find an approved supervisor, with the assistance of the programme and track convenors, within their area of interest. To ensure appropriate support to students, primary supervisors must be drawn from the School of Public Health. External co-supervisors (i.e. non-UCT) may also be drawn from any appropriate tertiary or research institution. (See the end of this brochure for further details on the mini-dissertation). The programme does not provide funding for research, although candidates may apply for such funding through any available channel.

#### 2.8 Assessment of student performance

Each course convenor will determine the appropriate form of assessment in that module. Such assessment will consist of some combination of take-home assignments, semester projects and/or final examinations. Typically the examination carries 50% of the assessment weight. The examination for each course will be written off at the end of the semester in question. Generally, a pass mark of 50% is required overall, with a 45% sub-minimum on each of the examination and semester mark separately.

An external examiner is appointed for every course. The external examiner for each course retains the discretion to alter the final course mark based on assessment of the candidate's performance across the course as a whole.

Candidates may be allowed to repeat a course they have failed, at the course convenor's discretion. No course may be undertaken more than twice. Where a candidate fails (a) any core course twice, or (b) any 3 courses, a recommendation will be made to the Dean to refuse the candidate further

registration in the programme. This applies to both core and elective courses. No supplementary examinations will be offered to candidates who fail a course. Candidates will have to repeat core courses they have failed. This may prolong the period of residence in Cape Town or extend registration.

The coursework and dissertation components must be passed independently. The dissertation will be marked by two examiners, both external to the university. The *highest* standard aimed for will be that of a manuscript potentially capable of publication as a single paper in a peer reviewed journal (although it need not be submitted for publication, nor be at the level of a peer-reviewed scientific publication in order to pass for the degree).

# 2.8.1 Deferred examination and access to examination scripts

Deferred examinations may be offered on medical and other grounds. For more detailed information, please see the UCT examinations site. Access to marked examination scripts will be provided based on the UCT General Rules and Policies Handbook.

#### 2.9 Distinction

Rules for distinction are determined by the Faculty and are subject to change. At the time of writing, the MPH degree will be awarded with distinction to candidates who average 75% or above on coursework plus dissertation, with a 70% sub-minimum on each component. (i.e. at least 70% average across all courses and at least 70% on the dissertation.)

# 2.10 Quality assurance

Each course will be evaluated by candidates using a standard questionnaire or via VULA, the electronic teaching platform. Course convenors may hold open discussions during the semester to provide feedback. The programme convenor will work with track and course convenors in considering evaluations, solving problems, and maintaining the coherence of the programme.

The programme convenor will also hold meetings with the whole MPH class from time to time. The external examiner for each course is asked to submit a

report on the quality of the course and the examination. All student feedback is welcome and is considered highly valuable towards strengthening the programme and improving student learning. In addition to the mechanisms described above, confidential feedback can be communicated to the programme convenor.

#### 2.11 University and programme rules

## 2.11.1 Entry

All participants, including non-degree candidates, or candidates for other UCT degrees, must register and pay fees for every course.

<u>Individuals may not "audit" courses, i.e. may not sit in for non-examination purposes.</u> The only exception to this is PhD students registered in SPH in the year in which they would like to take a particular module.

The final decision on admission of degree candidates sits with the programme and track convenors. The final decision on admission of non-degree candidates sits with the programme and course convenors.

#### 2.11.2 Attendance

Attendance at face-to-face learning activities is mandatory. Students should inform the module convenor if they are going to be absent for any part of a course or learning activity.

- Anyone missing the initial block of a module (40-50 percent of the teaching time) may <u>not</u> join that course afterwards. This is a Duly Performed (DP) requirement. Candidates should plan travel, conference attendance and private schedules accordingly. This is not negotiable.
- Students should also ensure that the examination weeks are kept free
  of any competing engagements.
- Students missing sessions must make their own arrangements to obtain material they have missed.
- Semester timetables should be consulted well in advance. These are posted on VULA and the School website.

#### 2.11.3 Communication

Primary communication with students about a module will take place via email, with additional communications via VULA or in class, as arranged by the module convenor. It is essential that the correct email address used by candidates appears on all lists. Please note that official communications are sent to UCT email addresses, and if a student is not using their UCT email address regularly they should arrange for an autoforward from their UCT email to their regular email.

It is the responsibility of the student to ensure that the programme administrator has all their correct contact details, including any change in email address or phone numbers. Email communication, typically using VULA, will also be used for routine programme-level matters.

## 2.11.4 Assignments

There are generally two or three assignments per course, with hand in deadlines; extensions must be sought well **in advance** of the advertised deadline. Penalties are determined by the convenor; some assignments may not be handed in late at all.

#### 2.11.5 Outside electives

Students may take up to two courses outside the UCT MPH programme modules. These may be from other programmes at UCT, or at other academic institutions. Please note that such electives are not administered through the MPH programme. It is therefore the responsibility of interested students to obtain administrative information from the relevant department or University.

Approval to undertake outside courses must be obtained *in advance* from the MPH programme convenor, who will check equivalence (e.g. 120 notional hours; suitable assignments and examination) and appropriate content. Additional approval may be required by the track convenor. Courses completed in the North American system must carry a minimum of a "3 semester credit" weighting at a Masters level.

Courses can be chosen from those offered by other UCT programmes. Attendance at a short course, even if a week long in duration, is not sufficient - the course must be a university Master's level course with appropriate summative evaluations of student performance.

Students must register and pay fees for these outside electives as required by the institution. There is no provision for feetransfers.

#### 2.11.6 Credits and exemptions

(a) *Credits* towards the degree, or (b) *Exemption* (with substitution) from a core module, based on Masters-level courses passed elsewhere, may be considered on production of appropriate documentation to the programme convenor. Additional approval may be required by the track convenor.

For credits, such courses must have been undertaken as part of a degree programme at another institution but cannot have formed part of an obtained qualification. This criterion does not apply to exemptions, which are aimed at avoiding duplication of prior study and do not reduce the number of courses required.

# 2.11.7 Plagiarism

The University has strict rules against plagiarism, i.e. presenting the work of others, including fellow students, as one's own without acknowledgement. This includes re-presenting text from written or electronic sources (e.g., the internet) without attribution. Generally, a complaint involving plagiarism results in immediate and automatic expulsion from the MPH programme and the University, from which individuals may appeal or later apply for readmission.

The subject of plagiarism, and how to avoid it, will be discussed at the beginning of the programme and at regular intervals thereafter. Candidates will be expected to submit signed declarations with all written work. Plagiarized work will earn zero credit, and the student reported via the University disciplinary process. This may result in a course failure, loss of financial support and/or expulsion. Convictions for plagiarism are endorsed on academic transcripts.

#### 2.11.8 Punctuality and lecture courtesy

Please be seated with your notes open by the advertised starting time. It is disruptive to have people walking in once the session has started. All cell phones should be switched off or on silent during sessions. Eating in lecture rooms is not permitted. Please discuss with your course convenor or University facilitator for lecture recordings. Audio and/or video recording of lectures without the permission of the lecturer is not allowed.

# 2.11.9 Summarised University language policy

English Foreign Language (EFL) or Foreign Permanent (FP) applicants whose primary language is not English are required to submit one of the following:

- A recent score of at least 570 (paper-based TOEFL test) or a score 230 (computer-based TOEFL test or a score of 90 (Internet-based TOEFL test).
   A recent test is a score that is obtained within 3 to 5 years before applying for admission to UCT.
- A recent overall band score of 7.0 (with no individual element of the test scoring below 6.5) on the International English Language Testing System (IELTS).
- See also: http://www.uct.ac.za/apply/intlapplicants/degree/applications/language/

# 2.11.10 Registration

All candidates – new and returning - must register promptly at the beginning of each year. This is not discretionary. This applies even if the courses commence only in the second semester and applies even for students who have only the mini-dissertation remaining to complete before graduation. Unregistered students may be asked to leave class or be refused supervision.

**Continuous registration is expected of all students in the MPH programme**: you must register for the degree every year from entry to graduation. The only exception to this is a withdrawal of registration, or a formal leave of absence.

Failure to register in a timely manner every year (until graduation) may result

in suspension from the programme and/or additional fees. If you are suspended for non-registration readmission to the programme is by re-application / readmission, and is not automatic. If you are readmitted, fee penalties are levied for late registration and fees charged retrospectively for any years "missed".

Where a candidate is still completing coursework and does not intend to submit the dissertation in that year, registration for the dissertation should be deferred. This does not preclude a candidate from starting work on the dissertation and being assigned a supervisor as soon as he or she is ready to do so.

Candidates must register for the dissertation in the year in which they intend to submit their dissertation. Candidates must pay the full dissertation fee at least once. If registration for the dissertation is continued into a subsequent year, a rebate may be earned for early submission depending on the date of submission. (The "year" for submission purposes usually extends to early February of the following year). "Dissertation only" students must, however, register and pay fees in **every** year in which the dissertation remains uncompleted. As a result, we recommend that students register for the dissertation ONLY after they and their supervisors are both confident that they will hand in the dissertation during the year.

# 2.11.11 Notice to leave: Withdrawal of registration

Students or their parents or guardians must give notice of intention to discontinue studies in writing by completing the Cancellation of Registration Form and submitting this to their Faculty Office in person **or by registered mail**.

The deadlines for rebates on fees for first and second semester courses are available from the MPH programme administrator, the Faculty of Health Sciences Postgraduate Office and the University Fees Office. These dates will be strictly adhered to. Any fees owing are due immediately on cancellation of studies.

See also http://www.uct.ac.za/usr/finance/fees/fees2014.pdf ['Drop an Individual Course' (in Section 2.3)]

No reduction in fees will be granted if the notice of intention to discontinue studies is received by the Faculty office after these deadlines. Change of "Curriculum Forms" are to be handed to the programme administrator at least a week before the deadline date to allow for signatures, etc. and for onward forwarding to the Postgraduate Faculty Office before the deadline date.

Candidates who stop attending a course yet either do not formally withdraw or withdraw after the last date above will have an 'absent' recorded for that course in that year. An "absent" (AB) mark is equivalent to a failure (F) in the programme and University. This will appear on the official transcript even if the course is later successfully completed.

#### 2.11.12 Leave of absence

A postgraduate student is required to have unbroken registration across a year of study until graduation and cannot merely absent him-herself without faculty approval.

Should Leave of Absence (LOA) be approved by the Deputy Dean: Postgraduate Education, on recommendation of the programme convenor and HOD, this will be valid for up to one year only. To apply for LOA the student must write to the Manager: PG Administration, setting out the circumstances, and attach substantiating documentation. If the student is applying on medical grounds he/she will need a medical certificate. Members of the staff in the Student Wellness Services do not have discretion to grant leave of absence. While a member of the Clinical Staff (or the student's own doctor) may discuss a leave of absence with the student as part of managing his/her condition, they may not request or instruct the Faculty to grant leave of absence. They may only provide a medical opinion.

**Retrospective leave of absence is not granted.** In such cases, full payment of fees for any "missed years" is required before re-registration.

# 2.12 University resources

UCT's postgraduate and postdoctoral hub is a useful clearing house for information related to postgraduate studies, including the Master of Public Health, at UCT. For more information see:

http://www.uct.ac.za/students/postgraduates/administration/

#### 2.12.1 Student representation

The university and faculty have a Postgraduate Students' Association to represent the interests of postgraduate students. Membership is encouraged.

In the past, students in each enrollment years of the programme have elected a 'class representative' to be the focal point for feedback to the programme on students facing issues. As the programme grew larger this approach proved less useful, and now we recommend to course convenors of larger courses (eg, >20-30 students) that they elect 'class representatives' for that specific module, if desired.

#### 2.12.2 Computing facilities

The Barnard Fuller Computer Laboratory (Level 1, alongside the Postgraduate seminar lecture rooms) is available for use by all postgraduate students. Other computer facilities on campus are shared between undergraduate and postgraduate students.

- Students must use their UCT swipe card to gain access to computer labs.
   Should a card be left at home or not function, students can go to Student Administration to gain access.
- The opening times are 24 hours a day, 365 days a year.
- Wireless access areas (via Eduroam) are available across campus.

# 2.12.3 Parking

Student parking on campus is available at the standard university fee that is payable annually.

# 2.12.4 Continuing Professional Development (CPD) credits

For individuals registered with the Health Professions Council of South Africa, 30 CPD points are awarded on graduation; this does not include ethics points.

#### 2.12.5 The Writing Centre

The Writing Centre at UCT forms part of the Language Development Group in the Academic Development Programme (Centre for Higher Education Development). This Centre offers students assistance with academic writing. Please visit their website: http://www.ched.uct.ac.za

Over the last few years, the upper campus Writing Centre has been so well utilised by students across the university, that the need for satellite writing centres has become apparent. In response to this need, the Faculty of Health Sciences Writing Lab officially opened its doors on the 9th of February 2015. The Writing Lab provides FHS students and staff with convenient access to specialist writing support on their own campus. Please visit the FHS Writing Lab website: http://www.writingcentre.uct.ac.za/about/healthsciences

Candidates may be referred to the Writing Centre by staff on the basis of performance in written work during the programme.

#### 3. GENERAL INFORMATION

#### 3.1 Fees

See the latest University Fee Handbook for up-to-date fee information: http://www.uct.ac.za/students/postgraduates/fees/handbook/

The University's course-based fee structures will enable students to accurately calculate the cost of their academic studies at UCT. Students can use the course codes listed in this document to look up the all-inclusive cost of the degree in the fees handbook. The sum of these costs will give the total cost for the set of chosen courses per semester and per year.

All students from outside South Africa or other Southern African Development Community (SADC) countries should refer to fees for international students in the Fees booklet on the website above.

All students will be billed in South African Rand regardless of the country of origin. For students who are not from SADC countries, an 'international fee' called the *International Term Fee*, will be charged in addition to standard registration fees. Both the International Term Fee plus the individual course based fees must be paid prior to registration. The full annual International Term Fee is charged even if registration commences in the second semester.

#### 3.2. Financial Assistance

Information regarding scholarships and bursaries is available on request from the Postgraduate Centre and Funding Office:

Tel: +27 21 650 3629 Fax: +27 21 650 4352

Email: pgfunding@uct.ac.za

Website: www.uct.ac.za/apply/funding/postgraduate/applications/

There are a number of University-administered Masters level scholarships for which both entering candidates and those already in the programme may apply. Deadlines are typically six months to one year in advance. Applications for the programme must be submitted by new applicants in parallel with any scholarship applications.

International students can apply for scholarships via the International Academic Programmes Office (IAPO). Forms will be available on the IAPO website (http://www.uct.ac.za/about/iapo/overview/intro/).

Generally, financial assistance for postgraduate studies at UCT is highly competitive.

#### 3.3. Accommodation

University accommodation is limited although specific residences close to the Health Sciences campus are available for postgraduate students. All inquiries about housing should be directed to:

Student Housing Accommodation & Advocacy Services (SHAAS)

University of Cape Town

Phone: +27 21 650 2977 Fax: +27-21- 650 4014

Email: res@uct.ac.za

http://www.uct.ac.za/apply/residence/life/overview/

#### 3.4. Study permits for international students

International students must obtain a study permit before entering South Africa. Please consult the nearest South African embassy/consulate well in advance. Further information for international students is available from the International Academic Programmes Office (IAPO):

http://www.uct.ac.za/about/iapo/overview/welcome/.

# 3.5. MPH Peer Mentorship

Settling into a new country and starting a demanding postgraduate programme can be quite daunting for many. To help with this, current MPH students have identified the need for a support system for new students. The peer mentorship programme assists students with accessing UCT resources such as the library, writing centre and computer labs. International students are assisted with the pre-registration process at IAPO, an important step before international students are permitted to register. More information on this is available at orientation or from the programme convenor.

# 3.6. Emergency Contacts

Employee Wellness	021-650-5685	Blanche.claasen-hoskins@uct.ac.za
Occupational health and Safety	021-650-3873	ohs@uct.ac.za key@uct.ac.za
Campus Safety	021-650-2222/3 24 hours	
Sexual-assault response team	072-393-7824 24 hours	sart@uct.ac.za
Office for Inclusivity and Change (OIC)	021-650-3530	
Whistle-blowing hotline	0800 650 0000 24 hours	uct@whistleblowing.co.za
UCT Ombud	021-650-0000	ombud@uct.ac.za

#### 3.7. MPH enquiries

The MPH programme office is located in the School of Public Health in Falmouth Building on the Health Sciences Campus. The physical location is:

School of Public Health
Falmouth Building, Entrance 5, Level 5
University of Cape Town Faculty of Health Sciences
Anzio Road, Observatory 7925, Cape Town, South Africa
http://www.publichealth.uct.ac.za/

Logistical and administrative enquiries may be directed to the MPH programme administrative team:

General enquiries: <a href="mailto:mphadmin@uct.ac.za">mphadmin@uct.ac.za</a>

Ms. Mikateko Sithole (MPH Senior Secretary)

Tel: 021 406 6578

Email: Mikateko.sithole@uct.ac.za

Ms. Tshamani Netshifhefhe (Programme Administrator)

Tel: 021 650 1098

Email: <u>tshamani.netshifhefhe@uct.ac.za</u>

Academic enquiries may be directed to Track Convenors or the MPH Programme Convenor.

#### 4. COURSES / MODULES

# 4.1 PUBLIC HEALTH AND SOCIETY (PPH7016F)

#### Convenors

Associate Professor Lucia Knight, BSc, MPopStuds, PhD (LSHTM, UK) Ms Natasha Kannemeyer, BA (New Zealand), MPH (Cape Town)

#### Structure

- Compulsory for Epidemiology & Biostatistics, Health Systems and Social & Behavioural Sciences tracks.
- Semester 1: one half block week in February/March
- One two-hour session approximately every week during the semester.

#### **Skill Objectives**

In this course, students will develop a broad understanding of the field of public health. By the end of the course students should be able to:

- Describe and define public health with some understanding of it's origins.
- Describe the major disciplinary contributions, key concepts, and core research tools that are central to public health knowledge and practice.
- Describe the state of the "public's health" in South Africa, with special reference to the distribution, causes and control of race, class, gender and geographic disparities in health.
- Describe opportunities and challenges for public health interventions beyond the biological, in the context of health systems, communities, cultures, political and economic structures, and the environment.
- Use this multi-disciplinary and multi-levelled approach—the public health perspective—to develop a richer understanding of health problems and the ways that public health knowledge and practice can address these problems.

#### Content

The course provides an introduction to the concept of public health and the recent changes in the field including a look forward to where the field is going. The course will consider the many tools and theories the field of public health uses to understand the causes and distribution of health and illnesses as well

as the ways public health professionals intervene to improve population health.

#### Requirements

As for degree (see section 2.2).

Please note that this course relies on group work for semester assignments, students are expected to attend all semester sessions unless otherwise discussed with the course convener. A sub-minimum of 80% of the semester sessions must be attended in order to qualify to write the exam.

# 4.2 INTRODUCTION TO EPIDEMIOLOGY (PPH7018F)

#### Convenors

Dr Jasantha Odayar, MBChB, MPH (Cape Town), DTM&H (Witwatersrand)

#### Structure

- Compulsory for Epidemiology & Biostatistics, Community Eye Health, Health Systems and Social & Behavioural Sciences tracks
- Semester 1: one half week block in February/March
- One two-hour session approximately every week during the semester

# **Skill Objectives**

The course aims to introduce the basic principles and methods of epidemiology. At the end of the course candidates should be able to demonstrate knowledge of:

- The nature and uses of epidemiology
- The strengths and limitations of epidemiological study designs
- The epidemiological approach to defining and measuring the occurrence of health-related states in the population
- The epidemiological approach to assessing study validity and disease causation

#### Content

- Basic measures of disease occurrence and disease association
- Types of study designs
- Random error, bias and confounding
- Introduction to demography and standardization

- Epidemiology in prevention and screening
- Causal inference in epidemiology
- Introduction to critical appraisal of the literature

#### Requirements

As for degree (see section 2.2)

# 4.3 BIOSTATISTICS I (PPH7021F)

#### Convenor

Mr Elton Mukonda, BSc, MPhil (UCT)

#### Structure

- Required for General, Epidemiology & Biostatistics, Community Eye Health tracks
- Semester 1: one half week block in February/March
- One two-hour session approximately every week during the semester

# **Skill Objectives**

This course provides an introduction to the basic concepts and methods of biostatistics. At the end of the course candidates should be able to demonstrate knowledge of:

- The importance of statistics
- Descriptive statistics
- Inferential statistical procedures
- Critically interpreting statistical output
- An application to all techniques by statistical software

#### Content

- Populations and samples, and sampling methods
- Descriptive measures and graphical techniques
- Distributions
- Estimation: Point and Interval estimation
- Hypothesis testing

- Power, Effect, and Sample size
- Measures of effect risk ratio and odds ratio

#### Requirements

As for degree (see section 2.2)

#### 4.4 ADVANCED EPIDEMIOLOGY (PPH7029F)

#### Convenor

Professor Landon Myer, BA (Brown), MA, MBChB, (Cape Town), MPhil, PhD (Columbia)

#### Structure

- Compulsory for Epidemiology & Biostatistics track
- Semester 1: one half-week block in February/March
- Face-to-face learning sessions during the semester approximately every week supplemented by notes and discussion board learning on VULA.

# **Skill Objectives**

To provide candidates with a deeper understanding of quantitative research concepts learned in the Introduction to Epidemiology course such as:

- Causation, measures of occurrence, and measures of association
- A framework for understanding the relationships between observational and experimental study designs, and an understanding of how different observational designs are inter-related
- An appreciation of the role of variable measurement in research, with emphasis on bias and misclassification and their effects
- A deeper understanding of confounding and how confounding is controlled in epidemiological research, and of the uses and limitations of matching in analytical studies
- A deeper understanding of intermediate variables and the role of intermediate variables in investigating the determinants of disease
- A deeper understanding of effect modification/interaction, including the relevance of these concepts to public health and the difficulties in

- identifying these phenomena in data
- The ability to integrate and apply different epidemiological concepts to provide a thorough critique of study design, conduct and analysis

#### Content

- Overview of study design and epidemiologic principles
- Measures of occurrence & effect
- Approaches to the assessment of causality
- Cohort studies and randomised control trials
- Case control and cross-sectional studies: appropriate effect measures
- Bias and validity
- Confounding (including standardisation)
- Effect measure modification
- Matching
- Critical appraisal

#### Requirements

- A pass of at least 65% in each of: Introduction to Epidemiology (PPH7018H), Biostatistics I and Biostatistics II (PPH7021F)
- Biostatistics III (PPH7092S) (completed or co-enrolled)
- One or more of:
  - Evidence Based Health Care (PPH7022S)
  - Epidemiology of Infectious Diseases (PPH7063S)
  - Epidemiology of Non-communicable diseases (PPH7065S)

# 4.5 THEORY & APPLICATION OF ECONOMIC EVALUATION IN HEALTH CARE (PPH7039F)

#### Convenor

Professor Edina Sinanovic, BSc (Zagreb), MCom (Cape Town), PhD (London)

#### Structure

- Compulsory for Health Economics track
- Semester: one half-week block in February/March
- One two-hour session approximately every week during the semester

# **Skill Objectives**

This module aims to enable students to understand and apply current methods in the economic evaluation of health care programmes and interventions. The main skill objectives are:

- To gain insights into the theory underlying the application of economic evaluation to health care programmes and interventions
- To develop an understanding of economic evaluation methodologies
- To be able to judge the quality of economic evaluations
- To develop skills in economic evaluation modelling

#### Content

- Introduction to economic evaluation
- Costing in economic evaluation
- Outcome measurement and valuation
- Cost, cost-effectiveness, cost-utility, and budget-impact analyses
- Critical appraisal of economic evaluation
- Use of economic evaluation in health system decision making
- Uncertainty in economic evaluation
- Modelling in economic evaluation

# Requirements

As for degree (see section 2.2); computer literacy: Microsoft Excel skills required

#### 4.6 MICROECONOMICS FOR THE HEALTH SECTOR (PPH7050F)

#### Convenor

Dr Lucy Cunnama, BSc (Hons) (Cape Town), MPH, PhD (Cape Town)

#### Structure

- Compulsory for Health Economics track
- Semester 1: one half-week block in February/March
- One two-hour session approximately every second week during the semester

#### **Skill Objectives**

To apply the theory and principles of microeconomics to health and healthcare, including the analysis of the structure and characteristics of the health care market, noting the differences between the market for health care and traditional markets in economics with a view to informing health care planning and policy.

#### Content

- Introduction to microeconomics and behavioural economic theory
- Definition, scope and role of microeconomics in the health sector
- The market for health care and the public sector
- Individual and household demand for health and health care
- Household-level analyses: the medical poverty trap and related issues
- Need, agency theory and supplier-induced demand
- Health care production and cost functions
- Efficiency in health care provision
- Health insurance contracts and incentive effects

# Requirements

As for Health Economics track (see section 2.2) preferably with a background in economics or health related research.

#### 4.8 QUANTITATIVE METHODS FOR HEALTH ECONOMISTS (PPH7064F)

#### Convenor

Dr Olufunke A. Alaba, BSc (Ado-Ekiti), MSc, PhD (Ibadan)

#### Structure

- Compulsory to candidates in the Health Economics track
- Semester 1: one half-week block in February/March
- One two-hour session approximately every week during semester

# **Skill objectives**

The aim of this module is to introduce students to the fundamentals of statistics and quantitative techniques as they apply to health economics. By the completion of the course, students will have acquired a good understanding of basic statistics and the essentials of econometrics to analyse and present data relevant to health economics settings. Different data sets will be used throughout the module.

#### Content

- Descriptive statistics
- Introduction to probability theory and probability distributions
- Estimation: standard errors, variance, confidence intervals
- Hypothesis testing
- Regression analysis and modelling
- Diagnostic tests for regression models
- Discrete choice models
- Principal components analysis
- Introduction to sampling and sampling processes
- Introduction to multilevel models applicable to social determinants of health

# Requirements

Entry: As for Health Economics track (see section 2.2)

#### 4.9 QUALITATIVE RESEARCH METHODS (PPH7071F)

#### Convenors

Dr Jennifer Githaiga, BEd, MA Communication, MA Counselling Psychology, PhD (Cape Town)

Mrs Lara Court BOT (UKZN), MPH (Cape Town)

#### Structure

- Compulsory for Social and Behavioural Sciences tracks
- Semester 1: one half-week block in February/March
- One two-hour session approximately every week during the semester

#### **Skill Objectives**

To enable candidates to:

- Identify and describe key concepts and theories related to qualitative inquiry, study design, sample selection and; data collection methods including a brief introduction to analysis, and report writing
- Develop basic qualitative research designs of their own and interpret and evaluate qualitative research reports and articles in the public health literature
- Explain how qualitative and quantitative research studies differ and when it is appropriate/necessary to use qualitative methods in public health research
- Understand how to develop a qualitative research question relevant to public health
- Develop basic qualitative research plans to guide rigorous qualitative research
- Understand and evaluate qualitative research process and value of evidence from reports and articles in the public health literature
- Understand the ethical and logistical issues involved in qualitative research

#### Content

- Conceptual/theoretical foundations of qualitative research
- Relationship/differences between qualitative and quantitative research designs and theoretical perspectives
- Development of an appropriate public health research question
- Qualitative methodology including: study design, sampling, data collection and rigour
- An introduction to the principles of qualitative data analysis and interpretation of data
- Ethical issues in qualitative research
- Evaluating the quality of qualitative research

# Requirements

As for degree (see section 2.2)

Please note that this course relies on group work for semester assignments, students are expected to attend all semester sessions unless otherwise discussed with the course convener. A sub-minimum of 80% of the semester sessions must be attended in order to qualify to write the exam.

## 4.10 INTRODUCTION TO HEALTH SYSTEMS (PPH7093F)

## Convenors

Professor Lucy Gilson, BA (Hons) (Oxon), MA (East Anglia), PhD (London) Associate Professor Jill Olivier, BA (Hons), MPhil, PhD (Cape Town)

## Structure

- Compulsory for Health Systems track
- Semester 1: one half-week block in February/March followed by sessions approximately every week during semester

## **Skill Objectives**

By the end of this course students should be able to:

- Show an understanding of the dynamic and complex nature of health systems by reflecting on and describing their value bases and functioning, their components and the central roles and behaviours of a range of agents
- Discuss health systems as social constructions, influenced by and influencing the agents within them, as well as influenced by broader political and economic forces, generating public value and contributing to societal development
- Apply these understandings to assessment of our own health system and comparison between health systems
- Apply relevant analytical skills and an understanding of complex systems in order to develop ideas about action to strengthen health systems
- Develop the personal communication, teamwork and leadership skills which are important for supporting health system change
- Demonstrate understanding of and openness to different perspectives on the nature of health systems

- Core elements of health systems
- Frameworks for conceptualizing health systems
- Key issues in strengthening health systems

- Understanding health systems as complex systems comprised of components, actors and inter-relationships
- Modes of health systems analysis and action

## Requirements

As for degree (see section 2.2)

## 4.11 BIOSTATISTICS III (PPH7095F)

#### Convenor

Dr Tamsin Phillips, BSc(UJ), MPH, PhD (UCT)

### Structure

- Compulsory for Epidemiology & Biostatistics track
- Semester 1
- This class meets weekly throughout the semester with extra sessions scheduled at the start of the semester

## **Skill Objectives**

- To provide candidates with a thorough understanding of the analysis of longitudinal and clustered data and a capability to perform such analyses themselves
- To introduce students to other more advanced statistical methods relevant to medical research, so that they are aware of their availability for application to specific problems in medical research

## Course content

- Advanced survival analysis
- Analysis of longitudinal data and clustered data
- Advanced topics in statistical modeling

# Requirements

Candidates failing Biostatistics III will be allowed to repeat the course only at the discretion of the course convenor. Candidates registered for a track in the MPH programme for which the course is compulsory will have a higher priority for readmission than those seeking to repeat the course as an elective.

## 4.12 CANCER PREVENTION AND CONTROL (PPH7096F)

#### Convenor

Professor Jennifer Moodley, MBChB, MMed (Public Health) PhD (Cape Town)

## Structure

- Elective; semester 1; one half-week block in February/March
- One two-hour session every week during semester

## **Skill Objectives**

By the end of the course participants should be able to:

- Understand the principles of cancer prevention and control
- Identify key modifiable and non-modifiable cancer risk factors
- Understand the role of molecular biomarkers and cancer genetics in assessing cancer risk and outcome
- Evaluate cancer prevention and early detection interventions including screening programs and behavioural and lifestyle interventions
- Understand issues related to cancer survivorship
- Understand issues related to palliative care
- Discuss the role of cancer registeries and surveillance systems in cancer control
- Understand key cancer prevention and control strategies
- Understand the elements of a cancer control program

## Content

This course provides an introduction to the principles of cancer prevention and control. It covers a broad range of topics including: the global burden of cancer, the hallmarks of cancer, cancer genetics, biomarkers to assess cancer risk and determine outcome, infection and cancer, cancer screening, surveillance and cancer registries, cancer control plans, behavioural and lifestyle interventions, chemoprevention, palliative care and survivorship. The module adopts an

interdisciplinary approach and teaching staff include clinical, public health and basic scientists.

## Requirements

As for degree (see section 2.2)

## 4.13 ENVIRONMENTAL HEALTH POLICY (PPH7098F)

#### Convenor

Professor Leslie London, BSc (Med) (Hons), MBChB (Cape Town), MMed, DOH (Witwatersrand), MD (Comm. Health)

## Structure

- Compulsory for Environmental Health track
- Semester 1: one half week block in February/March followed by sessions approximately every week during semester

## **Skill Objectives**

By the end of this course students should be able to:

- Critically analyse environmental health policy
- Apply ethics and human rights principles to environmental health
- Demonstrate a strengthened understanding and commitment to environmental justice
- Interpret and apply different approaches to risk management in environmental health
- Apply an understanding of how environmental health policy relates to broader public health policy and to sustainable development

- Environmental ethics and environmental Justice: participation and rightsbased approaches to protecting vulnerable groups
- Sustainable development
- The precautionary principle and dealing with scientific uncertainty
- Conflict of interest in environmenal health policy

- Global environmental health conventions
- The role of social movements in responding to environmental health challenge

## Requirements

(As for degree (see section 2.2)

# 4.14 COMMUNITY EYE HEALTH 1 - PLANNING & MANAGING EYE CARE SERVICES (CHM6022F)

#### Convenor

Dr D Minnies NHDMedTech, NDMedTech (CPUT), MPH, PhD (Cape Town)

#### Structure

- Compulsory for Community Eye Health track
- Semester 1: weekly on-line teaching and a weekly tutorial over six weeks
- Two assignments during the semester and an end of course examination

# **Skill Objectives**

To enable candidates to:

- Understand the magnitude, causes, and control strategies for the major blinding eye diseases in the world and in Africa
- Understand the components of the WHO/IAPB community eye health initiatives
- Understand the principles of programme planning
- Understand the principles of the control of cataract blindness
- Understand the principles of the control of visual impairment due to refractive error

- Epidemiology and visual impairment
- Cataract
- Refractive error

- Principles of planning
- Planning activities and budget, monitoring and evaluation

## Requirements

As for degree (see section 2.2)

# 4.15 COMMUNITY EYE HEALTH 2 – EPIDEMIOLOGY FOR EYE HEALTH (CHM6023F)

#### Convenor

Dr D Minnies NHDMedTech, NDMedTech (CPUT), MPH, PhD (Cape Town)

#### Structure

- Compulsory for Community Eye Health track
- Semester 1: weekly online teaching and a weekly tutorial over 6 weeks
- Two assignments during the semester and an end of course examination

## **Skill Objectives**

To enable candidates to:

• Understand study designs as applicable to eye health

## Content

- Basic epidemiology, research questions, study designs
- Cross sectional studies for cataract
- Case control studies for age related macular degeneration
- Cohort studies for diabetic retinopathy
- Randomised controlled trials for glaucoma
- Key informant methods, Cochrane reviews, qualitative studies for eye health

# Requirements

As for degree (see section 2.2)

## 4.16 FUNDAMENTALS OF GLOBAL SURGERY (CHM6045F)

## Convenor

Jocelyn Park-Ross (BTech:EMC, MPhil)

#### Structure

• Semester 1: One two-hour session every week during semester

## **Skill objectives**

This course examines the role of public and global health systems in surgery and explores strategies to improve surgical care in the African context. The course aims to build surgical leadership in Africa by equipping students with the foundational knowledge, critical analysis and reasoning skills, and tools needed to contribute to global surgery through research, advocacy, and implementation of surgical healthcare programs for large-scale impact.

- Defining Global Surgery
- The history of Global Surgery
- Research in Global Surgery
- The burden of surgical disease
- Health systems strengthening and financing for surgery
- Perioperative and theatre management & surgical leadership
- Complexity thinking; public policy and bureaucracy; advocacy
- Implementation and quality improvement in surgical systems
- Ethics in Global Surgery
- The future of Global Surgery

## 4.17 EVIDENCE-BASED HEALTH CARE (PPH7022S)

#### Convenor

Associate Professor Mark E. Engel, BSc(Med) Hons, MPH, PhD (Cape Town)

## Structure

- Semester 2: one half week block in July/August
- One two-hour session approximately weekly during the semester

## **Skill Objectives**

To enable candidates to:

- Convert health care information needs into answerable questions
- Identify the best evidence with which to answer them
- Critically appraise the evidence for validity and usefulness
- Apply the evidence in health care practice and policy

Elements involved in developing a protocol for systematic reviews will be highlighted.

#### Content

- Formulating answerable questions
- Systematic and comprehensive searches for evidence
- Evaluating articles about treatment or prevention, diagnosis, prognosis, harm, clinical decision analysis and clinical practice guidelines
- Data abstraction, synthesis and interpretation

# Requirements

A pass of at least 55% in Introduction to Epidemiology (PPH7018H).

## Recommended

Biostatistics I (PPH7021F)

## 4.18 HEALTH POLICY AND PLANNING (PPH7041S)

## Convenor

Professor Lucy Gilson, BA (Hons) (Oxon), MA (East Anglia), PhD (London)

#### Structure

- Compulsory for Health Economics and Health Systems tracks
- Semester 2: one half week block in July/August
- One two-hour session every week during semester.

## **Skill Objectives**

At the end of the module participants should be able to:

- Demonstrate understanding of the nature of health policy and the policy process
- Recognise the socio-political factors and especially power acting on and through health policy
- Conduct comprehensive analyses of policy development and implementation processes, including stakeholder analysis
- Develop strategies to influence health policy change, that take account of power flows
- Apply theoretical frameworks and concepts in the analysis of policy processes
- Demonstrate understanding of the complexities of developing and implementing health policies intended to promote equity.

- What is health policy and policy analysis?
- How do policies emerge and unfold?
- What do policies aim to achieve?
- Why and how do policy actors exercise power in health policy processes?
- How does gender influence policy and policy change processes?
- How does power play out in policy processes?
- What global actors and forces matter in health policy?
- Which government actors matter in health policy processes?

- What is agenda setting and how do policy networks influence it?
- Where is the politics in policy formulation and planning?
- What is bottom up implementation and what role do street level bureaucrats play in implementation?
- Governance lessons: advocacy
- Governance lessons: leading policy change
- Governance lessons: co-production and citizen engagement

## Requirements

As for degree (see section 2.2)

## 4.19 PUBLIC HEALTH AND HUMAN RIGHTS (PPH7053S)

#### Convenor

Professor Leslie London, BSc(Med) (Hons), MBChB (Cape Town), MMed, DOH (Witwatersrand) MD (Comm. Health)

## Structure

- Compulsory for Social and Behavioural Sciences track; elective for other tracks
- Semester 2: one half-week block in July/August
- One two-hour session approximately every week during the second semester

# **Skill Objectives**

The module will take students through an introduction to human rights and its relevance to public health. Students will be given opportunities to develop critical skills to analyse public health policies from a human rights perspective, and understand how trade-offs should be made between public health and individual entitlements within a human rights framework. Important debates in the human rights literature will be aired, particularly through the use of South African and regional case studies, so that students can apply these insights in their current and future work. Students will cover the international

and national frameworks for human rights, particularly the human rights dimensions of South Africa's constitution and its post-apartheid legal framework. Case studies involving different vulnerable groups will be explored. The module will aim to enhance students' capacity to be self-reflective in dealing with public health problems, and to apply human rights approaches to their resolution.

### Content

- Theoretical and historical background to human rights, including ideas of rights in an African context
- International and national human rights instruments and institutions
- Contemporary debates in defining human rights and their implementability
- The relationship of human rights to health
- The right to health, and of access to health care in national and international law; health as a socioeconomic right
- When it may be legitimate to restrict rights and the public health rationale
- Instruments to examine the human rights impact of public health policies, and to incorporate human rights in public health planning and practice
- Vulnerable groups, human rights and health
- Dual loyalty and health rights
- The relationship of trade policies and practices, intellectual property and human rights as it affects public health and access to health care.
- Health systems and human rights

# Requirements

As for degree (see section 2.2)

## 4.20 GENDER AND, SEXUAL AND REPRODUCTIVE HEALTH (PPH7054S)

## Convenor:

Associate Professor Lucia Knight, BSc, MPopStuds, PhD (LSHTM, UK) Ms Natasha Kannemeyer, BA (New Zealand), MPH (Cape Town)

## Structure

- Compulsory for Social and Behavioural Sciences track
- Elective for other tracks
- Semester 2: one half week block in July/August
- One two-hour seminar approximately every week during the first semester

## **Skill Objectives**

The course is intended for students interested in understanding the impact of gender, sex and sexuality on health, health care, and health systems. The course content provides students with the tools and perspectives to promote equity goals pertaining to health, gender and sexuality within the broad arena of public health.

The course aims to explore the influence of gender, sex and sexuality on the construction of public health in diverse societies and on the experience of and expectations of health.

- Understanding the differences in definitions, understandings and application in public health of sex and sexuality
- The gendered stratification of societies and its differential impact on the health of women, men and the LGBTQI community
- Global patterns in gender and health
- Gender, sex, sexuality and health in South Africa
- Changing practices: strategic and practical approaches to gender, sex, sexuality and health

## Requirements

As for degree (see section 2.2)

Please note that this course relies on group work for semester assignments, students are expected to attend all semester sessions unless otherwise discussed with the course convener. A sub-minimum of 80% of the semester sessions must be attended in order to qualify to write the exam.

## 4.21 EPIDEMIOLOGY OF INFECTIOUS DISEASES (PPH7063S)

#### Convenor

Associate Professor Mary-Ann Davies, MBChB PhD (Cape Town), FCPHM (SA)

## Structure

- Elective; semester 2: one half-week block in July/August
- One two-hour session approximately every week during the semester

## **Skill Objectives**

By the end of the course candidates should be able to:

- Apply descriptive epidemiology to communicable diseases and their control and to outbreak situations
- Classify infectious diseases epidemiologically and use common terms and definitions appropriately
- Discuss transmission dynamics and mathematical modelling of epidemics
- Discuss routine and sentinel surveillance
- Discuss the epidemiology and development of vaccines
- Apply epidemiology to specific communicable diseases including HIV/AIDS, tuberculosis (TB), sexually transmitted illnesses (STIs), malaria, hospital-acquired infections and childhood communicable diseases

#### Content

Commonly used terms and definitions, descriptive epidemiology, outbreak investigation, transmission dynamics, mathematical modelling, surveillance, vaccination efficacy and effectiveness, epidemiology applied to HIV/AIDS, TB,

STIs, malaria and childhood communicable diseases.

## Requirements

A pass of at least 55% in Introduction to Epidemiology (PPH7018F)

## 4.22 EPIDEMIOLOGY OF NON-COMMUNICABLE DISEASES (PPH7065S)

## **Convenors**

Professor Lara Dugas, BSc PhD (Cape Town) MPH MSc (Loyola)

## Structure

- Elective: Semester 2; one half-week block in July/August
- One two-hour session most weeks during the semester

## **Skill Objectives**

By the end of the course candidates should be able to:

- Understand definitions of NCDs, debates in their designation and factors underlying their emergence
- Know the epidemiology of the determinants of NCDs applying frameworks to understand social determinants, risk factors, and infectious agents (causation)
- Interpret the population burden of non-communicable disease measures and data
- Use appropriate conceptual frameworks, such as the socio-ecological framework, the life-course approach to study and understand noncommunicable disease occurrence and control at an individual and population levels
- Demonstrate familiarity with methodological issues and epidemiological methods in the study of non-communicable disease including the limits of observational evidence, life-course epidemiology and genetic associations
- Evaluate different interventions at individual, community and societal level to prevent and control chronic diseases including screening and surveillance

Burden of non-communicable disease; Conceptual frameworks for studying chronic disease causation and control; Epidemiology of cardiovascular disease, diabetes, respiratory disease, cancer, mental ill-health, neurodegenerative diseases, injuries and environmental hazards; Epidemiologic transition in relation to risk factors for the major chronic diseases, e.g. nutrition, obesity, physical exercise, alcohol and tobacco use as well as upstream factors impacting on diseases such as food policy and the built environment; Integrated health services interventions; Genetics and public health. Study designs used to assess to associations between exposures and NCDs.

## 4.23 QUANTITATIVE RESEARCH METHODS (PPH7070S)

#### Convenor

Dr Thokozile Malaba, BSc Hons, MPH, PhD (Cape Town)

## Structure

- Compulsory for General, Epidemiology & Biostatistics, Community Eye Health and Health Economics tracks
- Semester 2
- This class meets twice weekly during the semester

# **Skill Objectives**

- To enable students to formulate pertinent research questions and hypotheses in public health and write detailed research proposals that utilize quantitative methods
- To promote research reading, review and writing skills (including citation and scientific argument) for purposes of research proposals
- To introduce students to data handling best practices (mainly in the post data collection to analysis steps) for analysis, sharing and reporting on data
- To introduce students to the application of quantitative research methods in the monitoring and evaluation of programmes

- Programme Monitoring and Evaluation
- Formulation of research questions
- Writing Skills
- Research protocol, research ethics, literature review
- Population, sampling and subject selection; sample size calculation
- Measurement: questionnaires; validity and reliability
- Conducting quantitative research
- Data management and manipulation

## Requirements

As for degree (see section 2.2)

# 4.24 THE ECONOMICS OF HEALTH SYSTEMS (PPH7077S)

#### Convenor

Dr Amarech Obse, BA, MSc (Ethiopia), PhD (TCD Ireland)

### Structure

- Compulsory for Health Economics track
- Semester 2: one half-week block in July/August
- One two-hour session approximately every week during the semester

# **Skill Objectives**

At the end of the module, participants should be able to:

- Demonstrate an understanding of the complex nature of health systems and the interrelationships between the various components of the health systems
- Identify key functions of health care financing
- Recognise the advantages and disadvantages of various health care financing options
- Engage in debate about health financing reforms
- Use a range of analytical tools to examine specific issues in health systems

Following an initial session providing an overview of health systems and introducing the module, the module is divided into three parts:

- Part 1 focuses on health systems financing and discusses issues relating to universal coverage in low- and middle-income country settings;
- Part 2 introduces some analytical tools for assessing health financing systems, with a focus on progress towards universal coverage; and
- Part 3 discusses the interrelationships between health care financing and other components of health systems (e.g. human resources, Gender, Sex and Reproductive Health care service provision)

While the module introduces theories and methodologies used to examine the economics of health systems, it also integrates practical sessions (including group exercises and appraisal of empirical studies) to help students better understand the application of those theories and methodologies in the context of low-and middle-income countries.

## Requirements

- As for degree (see section 2.2)
- Computer literacy: Microsoft Excel competence required

# 4.25 QUALITATIVE DATA ANALYSIS (PPH7091S)

#### Convenors

Dr Jennifer Githaiga, BEd, MA Communication, MA Counselling Psychology, PhD (Cape Town)

#### Structure

- Compulsory for Social & Behavioural Sciences track
- Semester 2: one half-week block in July/August
- One two-hour session approximately every week during the semester

# **Skill Objectives**

By the end of this course students should be able to:

- Conduct a basic thematic analysis of text-based qualitative data from coding to interpretation
- Understand the theoretical foundations of qualitative data analysis;
- Be exposed to a range of qualitative data analytic strategies and understand their application and differences between them
- Understand the value and application of theoretical models and conceptual frameworks in the analysis of qualitative
- Be introduced to the value and use of electronic qualitative data management software
- Produce a comprehensive data analysis report including all components of qualitative research reporting
- Be introduced to the dissemination of qualitative research results
- Critically evaluate the quality and appropriateness of qualitative analysis strategies.

#### **Course Outline**

This course aims to provide students with a practical introduction to data analysis in health social science research. Building on the conceptual and protocol design work undertaken in the first qualitative research methods module (PPH7071F), this module will lead students through the process of analysing and writing up their qualitative research data. Students can either bring in their own qualitative dataset or will be provided one by the convenor.

# **Key Outcomes**

By the end of course students will be able to:

- Describe the conceptual/theoretical foundations of qualitative data analysis
- Describe the range of possible analytic strategies in qualitative research and select an appropriate strategy for analysing their dataset
- Prepare and manage their dataset effectively and carry out their chosen analytic strategy
- Critically reflect on the strengths and weaknesses of their chosen strategy and their own application of that strategy, and
- Select an appropriate format for writing up their results and produce a

- complete qualitative research report.
- Critically evaluate published qualitative research with a focus on qualitative data analysis, interpretation ad presentation.

## Requirements:

• PPH7071F Qualitative Research Methods

Please note that this course relies on group work for semester assignments, students are expected to attend all semester sessions unless otherwise discussed with the course convener. A sub-minimum of 80% of the semester sessions must be attended in order to qualify to write the exam.

## 4.26 BIOSTATISTICS II (PPH7092S)

#### Convenor

Mr Frissiano Honwana, BSc, MSc (UKZN)

#### Structure

- Compulsory for Epidemiology & Biostatistics, Community Eye Health tracks
- This class meets twice weekly during the semester

# **Skill Objectives**

To equip candidates with a good understanding of modelling the relationship between a response and a set of risk factors, so as to be able to perform such analyses themselves using sophisticated statistical software.

- Multiple linear regression for modelling and identifying the relationship between a continuous response and a set of risk factors
- Logistic regression for modelling and analysing the relationship between a dichotomous indicator of disease status and a set of risk factors
- Cox regression analysis (survival analysis methods)

## Requirements

- Biostatistics I (PPH7021F)
- Introduction to Epidemiology (PPH7018F)

Candidates failing Biostatistics II will be allowed to repeat the course only at the discretion of the course convenor. Candidates registered for a track in the MPH programme for which the course is compulsory will have a higher priority for readmission than those seeking to repeat the course as an elective.

## 4.27 HEALTH SYSTEMS RESEARCH AND EVALUATION (PPH7094S)

#### Convenor

Associate Professor Jill Olivier, BA (Hons), MPhil, PhD (Cape Town)

## Structure

- Compulsory for Health Systems track
- Semester 2: one half week block in July/August followed by sessions approximately every week during semester

# **Skill Objectives**

By the end of this course students should be able to:

- Identify researchable health policy and systems issues, including those focused on action to strengthen health systems and the processes of policy change
- Formulate substantively relevant health policy or health systems research questions, by drawing on relevant empirical work, practice knowledge, and theoretical insights
- Be familiar with the range of research purposes, questions and strategies used within HPSR
- Identify appropriate research strategies and study designs for different HPSR issues, purposes and question types
- Show awareness of critical issues in, and approaches to, ensuring rigour in HPSR
- Be aware of critical ethical issues for HPSR

- Be able to source HPSR materials and critically appraise HPSR empirical papers
- Appreciate the value of multiple perspectives (positional and disciplinary) in conducting HPSR
- Have some understanding of how the complex and socially constructed nature of health policy and health systems is addressed in HPSR methodology
- Plan activities that support the use of research evidence for and in decision-making, through researcher-policy maker/practitioner engagement
- Recognize that personal skills, such as reflexivity, listening and facilitation, are critical to being a health policy and systems researcher

- Different disciplinary perspectives on health systems dimensions and challenges
- Introductory content on health systems research and evaluation methods
- More in-depth content on some key study designs and analytical approaches common in HPSR

# Requirements

- Have successfully completed Introduction to Health Systems (PPH7093F)
- As for degree (see section 2.2)

# 4.28 PRACTICUM IN PUBLIC HEALTH (PPH7089F/S)

#### Convenor

Professor Leslie London, BSc (Med) (Hons), MBChB (Cape Town), MMed, DOH (Witwatersrand) MD (Comm. Health)

#### Structure

- Elective, restricted to a maximum of ten candidates annually.
- Timing will be flexible depending on host needs and candidate availability

- The candidate will be expected to spend 120 notional hours during either semester 1 or semester 2 (or across both semesters) on the practicum including service work, approved self-learning, and writing/ communication
- Selection will be conducted by the course convenor in consultation with the host

## **Skill Objectives**

The purpose of the Practicum in Public Health is to provide candidates with an experience of practical application of public health skills in a community, organizational or other service context. Each practicum attachment will have specific learning outcomes that relate to the placement. The outcomes will reflect:

- (a) ability to apply public health skills to a client/organizational problem;
- (b) ability to adapt to a service setting and meet client need; and
- (c) ability to process and communicate the practical experience

## Assessment

This will include:

- Continuous reflective journal
- Oral presentation of the project output
- Written project report, including description of the organisation and genesis of the project
- Assessment by practicum host of students' performance

# Requirements

As for degree (see section 2.2)

# 4.29 SEMINARS IN EPIDEMIOLOGY & BIOSTATISTICS (PPH7090F/S)

#### Convenor

Professor Landon Myer, BA (Brown), MA, MBChB, (Cape Town), MPhil, PhD (Columbia)

## Structure

- Only open to students in Epidemiology & Biostatistics track; admission requires permission of course convenor
- Semesters 2 (Register in semester 2 of year 2 only)
- Weekly two-hour sessions mixing student reading presentations and sample analyses with critical discussion and didactic seminars, supplemented by VULA-based readings and discussion

## **Skill Objectives**

To provide a working understanding of advanced epidemiological principles and proficiency in advanced epidemiological analytic methods, including: causal modelling, including the application of marginal structural models; infectious diseases modelling; directed acyclic graphs and estimator biases; instrumental variables, propensity scoring and alternative methods for adjusting for confounding.

- The purpose of Seminars in Epidemiology & Biostatistics is to provide select MPH candidates in the Epidemiology & Biostatistics track with advanced training in epidemiological and/or biostatistical methods. The course is structured as a reading and tutorial seminar over one semester that provides students with understanding of recent developments in epidemiological principles as well as proficiency in advanced epidemiological analytic methods.
- Students will meet the convenor or designated lecturer for weekly 2-hour sessions and are expected to undertake an additional 4-6 hours of reading or demonstration analyses each week.
- Admission is only by prior arrangement with the track convenor.
- Assessment is by student critical reading summaries and class participation (33%); a student project based on coursework (33%) and final examination (34%)

## **Prerequisites**

- Introduction to Epidemiology (PPH7018F)
- Advanced Epidemiology (PPH7029F)
- Biostatistics I (PPH7021F)
- Biostatistics II (PPH7092S)
- Biostatistics III (PPH7095F)
- Permission of the course convenor

## 4.30 CLIMATE CHANGE, POLLUTION AND HEALTH (PPH7097S)

#### Convenors

Professor Aqiel Dalvie BSc, BSc(MED) Hons, MSc, PhD, (Cape Town)
Mr James Irlam BSc, BSc (MED) Hons, MPhil (Epidemiology), MSc (Climate Change & Development) (Cape Town)

## Structure

- Compulsory for Environmental Health track
- Semester 2: one half-week block in July/August
- One two-hour session approximately every week during semester 2
- Learning will take place through a combination of formal seminars and group work in class

# **Skill Objectives**

By the end of this course students should be able to:

- Understand environmental health from a global and local perspective
- Understand the major environmental health issues which impact local and global burden of disease
- Critically analyse environmental health problems
- Study environmental health problems
- Understand key global evidence of anthropogenic climate change
- Understand how climate change directly and indirectly impacts public health
- Understand how climate change increases health risks due to pollution among vulnerable groups in South Africa

- Understand climate and health co-benefits of mitigation and adaptation measures
- Understand the key principles of sustainable health care
- Identify the priorities in policy, governance, implementation and research to address public health impacts from climate change and pollution in South Africa

- Environmental Epidemiology
- Environmental Burden of Disease
- Air & Water Pollution and Health
- Toxic Chemicals and Health (Including pesticides, persistent organic pollutants, metals and endocrine disruptors)
- Climate Change and Health Impacts
- Climate change mitigation and adaptation measures
- Sustainable health care in principle and practice

## Requirements

As for degree (see section 2.2)

# 4.31 CHILDREN'S ENVIRONMENTAL HEALTH (PPH7099S)

#### Convenors

Professor Hanna-Andrea Rother, BA MA, PhD (Michigan State) Ms Rebecca Mlelwa, BSc MSc (Tanzania)

## Structure

- Compulsory for Environmental Health track
- Semester 2: one half-week block in July/August
- One two-hour session approximately every week during the semester
- Learning will take place through a combination of formal seminars and group work

## **Skill Objectives**

By the end of this course students should be able to:

- Recognize children's environmental health issues from a regulatory, preventative and community action perspective particularly in Africa and low- and middle-income countries (LMICs)
- Identify the nature of children's health problems, especially their vulnerability to toxic agents and harmful pollutants at the different growth and development stages
- Describe children's health risk to environmental factors
- Apply children's rights to preventing heath risks from exposure risks including environmental injustices and child labour
- Identify and apply children's health risk assessment, risk management, and risk communication approaches
- Critically evaluate health promotion interventions to adress children's environmental health issues
- Identify and apply innovative and effective health mitigation strategies

## Content

The course sessions fall into five key themes. These are:

- 1. Children's environmental health policy
- 2. Specific environmental health factors impacting on children's health
- 3. Health impacts on children from exposures to environmental factors
- 4. Methods for evaluating the impacts on children's environmental health
- 5. Health promotion methods

#### Sessions include:

- Children's Environmental Health (CEH) and Vulnerablilities
- Air pollution, Contaminated Water and CEH
- Health Risk Assessments, Risk Management & Risk Communication
- CEH Prevention and Behaviour Change
- Economics of CEH
- Chemicals and CEH
- Children's Rights and Environmental Justice
- Child labour

- Children in a Changing Climate
- CEH and the built environment, housing and planning
- CEH inidcators
- Children's mental health
- Emerging health risks for children (e.g., vapping, noise, mobile technology)
- CEH Risk mapping
- Policy brief development

# Requirements

As for degree (see section 2.2)

## **5. EXAMPLES OF OUTSIDE ELECTIVES**

# 1. UCT Graduate School in Humanities (see handbook & website):

http://www.uct.ac.za/downloads/uct.ac.za/apply/handbooks/fac\_hum\_PG\_2 01 3.pdf

# School of Public Health, University of the Western Cape http://www.uwc.ac.za/Faculties/CHS/soph/Pages/default.aspx

3. Master of Philosophy in Maternal and Child Health, Child Health Unit, UCT http://web.uct.ac.za/depts/chu/mphil/

#### Note:

Prior approval must be obtained from the MPH programme convenor and the relevant track convenor to take any of these or other potential elective identified by the candidate for credit. Courses taken without prior approval may be refused credit. The MPH programme carries no responsibility for the administration of these courses. Fees payable are determined by the faculty/institution offering the elective and the fee:credit ratio may differ from that of standard MPH courses. Candidates must arrange for their marks to be communicated directly by the department offering the course to the programme administrator.

#### 6. TRACK DESCRIPTIONS

## Epidemiology & Biostatistics specialisation (MM012PPH02)

Compulsory courses

PPH7016F Public Health & Society

PPH7018F Introduction to Epidemiology

PPH7021F Biostatistics I

PPH7070S Quantitative Research Methods

PPH7092S Biostatistics II PPH7095F Biostatistics III

PPH7029F Advanced Epidemiology

One of:

PPH7063S Epidemiology of Infectious Diseases

PPH7065S Epidemiology of Non-Communicable Diseases

One of:

PPH7022S Evidence-Based Health Care

PPH7090F/S Seminars in Epidemiology (by permission)

One of:

PPH7093F Introduction to Health Systems

PPH7041S Health Policy & Planning

PPH7039F Theory & Application of Economic Evaluation in Healthcare

# Health Economics specialisation (MM012ECO07)

Compulsory courses

PPH7039F Theory & Application of Economic Evaluation in Healthcare

PPH7041S Health Policy & Planning

PPH7050F Microeconomics for the Health Sector

PPH7064F Quantitative Methods for Health Economists

PPH7070S Quantitative Research Methods PPH7077S The Economics of Health Systems

# Health Systems specialisation (MM012PPH12)

Compulsory courses

PPH7016F Public Health & Society

PPH7018F Introduction to Epidemiology PPH7093F Introduction to Health Systems PPH7041S Health Policy & Planning

PPH7094S Health Systems Research & Evaluation PPH7077S The Economics of Health Systems

Either (depending on student background):

PPH7071F Qualitative Research Methods

OR

PPH7070S Quantitative Research Methods

# Community Eye Health specialisation (MM012CHM03)

Compulsory courses

CHM6022F Community Eye Health 1 CHM6023F Community Eye Health 2

# Social & Behavioural Sciences specialisation (MM012PPH14)

Compulsory courses

PPH7016F Public Health & Society

PPH7018F Introduction to Epidemiology PPH7053S Public Health & Human Rights

PPH7054S Gender & Sexual & Reproductive Health

PPH7071F Qualitative Research Methods

PPH7091S Qualitative Data Analysis

# **Environmental Health specialisation (MM012PPH15)**

Compulsory courses

PPH7016F Public Health & Society

PPH7018F Introduction to Epidemiology
PPH7070S Quantitative Research Methods
PPH7097S Climate Change, Pollution & Health

PPH7098F Environmental Health Policy PPH7099S Children's Environmental Health

Please note that requests for exemptions from or substitutions of compulsory courses may be discussed with the track convenor involved, and may be considered based on special circumstances.

# **Prerequisites**

Course	Prerequisites
Advanced Epidemiology (PPH7029F)	A pass of 65% for Introduction to Epidemiology, Biostatistics I and Biostatistics II Pass in or co-enrolled in Biostatistics III One or more of:
Microeconomics for the Health Sector (PPH7050F)	Preferably a background in economics or health related research
Qualitative Data Analysis (PPH7091S)	Pass in Qualitative Research Methods
Biostatistics II (PPH7092S)	Pass in Biostatistics I Pass in Introduction to Epidemiology
Health Systems Research & Evaluation (PPH7094S)	Pass in Introduction to Health Systems
Biostatistics III (PPH7095S)	Pass in Biostatistics II

### **EPIDEMIOLOGY & BIOSTATISTICS TRACK**

## **Track Convenor:**

# Professor Landon Myer, BA (Brown), MA, MBChB (Cape Town), MPhil, PhD (Columbia)

Epidemiology is the study of the distribution of disease, injury and other health states in populations. This includes the study of factors that influence health states and the interventions that may be used to ameliorate these. Often considered the 'basic science' of public health, epidemiology is predominantly quantitative in its approaches. Epidemiology is often closely linked with biostatistics, which involves the application of statistical techniques to address problems in the health sciences, including the analysis of data from quantitative investigations in public health.

The Epidemiology & Biostatistics track is aimed at candidates who wish to develop a broad understanding of quantitative thinking in the health sciences. This will suit candidates who envisage a career that requires skills in understanding and synthesising epidemiological data and other quantitative data sources. Many students who complete the Epidemiology & Biostatistics track go on to work in research, including further postgraduate studies. In addition, the track may be of interest to clinicians who want to enhance their research skills and acquire a public health perspective at the same time. The Biostatistics courses are a complement to the Epidemiology training but do not offer the equivalent of a Masters in Statistics.

Candidates who wish to be admitted to the Epidemiology & Biostatistics track will need to provide evidence of quantitative skills in their previous training. Admission to higher level Epidemiology courses is subject to a minimum of 55% pass in the introductory level subjects. Admission to Advanced Epidemiology requires a minimum pass of 65% in Introduction to Epidemiology. Admission to Biostatistics II requires a minimum pass of 65% on Biostatistics I. Candidates who do not meet these requirements will switch to another track, usually the General Public Health track.

To complete this track, candidates must use quantitative methods in their dissertation. Candidates should seek advice from the track convenor if they are unsure about the suitability of a proposed dissertation.

# EXAMPLE OF TWO YEAR COURSE WORK TIMETABLE: EPIDEMIOLOGY & BIOSTATISTICS TRACK

First year								
Semester 1	Public Health and Society	Biostatistics I	Introduction to Epidemiology					
Semester 2	Biostatistics II	Quantitative Research Methods	* *	* *				
Second year	Second year							
Semester 1	Biostatistics III	Advanced Epidemiology	Introduction to Health Systems *					
Semester 2	* *	* *	Health Policy and Planning *	* *				

The "unstarred" courses are compulsory.

<sup>\*</sup> Alternates for fifth compulsory course

<sup>\*\*</sup> Any *two of* Evidence Based Health Care, Epidemiology of Non-Communicable Diseases, Epidemiology of Infectious Diseases. Alternatively, Seminars in Epidemiology with permission of track convenor.

### **HEALTH ECONOMICS TRACK**

# Track convenor:

# **Dr Lucy Cunnama**

The MPH Health Economics track examines health economics from both the macro- and micro-economic perspectives. The curriculum focuses on health economics and health systems in the African context and, while theoretical components are included, the programme concentrates on the development of practical research skills useful to graduates working in African health systems.

The MPH Health Economics is an 18-month program. The course is designed for those who have a social, economic or health sciences background and have worked and/or will work in the health sector in low and middle-income settings. As part of the programme, all students are required to complete a minimum of eight modules: six core modules and two elective modules. Please be aware of your selection if you will require a course to assist you in your dissertation. For instance, if you want to undertake an economic evaluation for your dissertation (which you can start working on in the second semester) you will need to take Theory and Application of Economic Evaluation in Health Care in the first semester.

Candidates are also required to produce a master's dissertation based on their own research in an area related to health economics. The Masters dissertation accounts for 50% of the final assessment for the master's degree, i.e. equal weight is given to both the course work and dissertation components of the programme. (The other MPH tracks weight the dissertation at 33%).

# ONE YEAR COURSE WORK TIMETABLE: HEALTH ECONOMICS TRACK

First year							
Semester 1	Micro- economics for the Health Sector	Quantitative Methods for Health Economists	Theory and Application of Economic Evaluation in Health Care	Elective 1 *			
Semester 2	The Economics of Health Systems	Quantitative Research Methods	Health Policy and Planning	Elective 2 *			

The "unstarred" courses are compulsory. Two electives\* are required.

## **Possible Electives:**

# **Examples within the MPH programme:**

## First semester:

- PPH7071F: Qualitative Research Methods
- PPH7018F: Introduction to Epidemiology
- PPH7021F: Biostatistics I
- PPH7016F: Public Health and Society
- PPH7093F: Introduction to Health Systems
- PPH7098F: Environmental Health & Policy
- PPH7096F: Cancer Prevention and Control

## Second semester:

- PPH7065S: Epidemiology of Non-Communicable Diseases
- PPH7053S: Public Health & Human Rights
- PPH7065S: Epi of Non-Communicable Diseases
- PPH7053S: Public Health and Human Rights
- PPH7092S: Biostatistics II (Note: It is a prerequisite to pass both Biostatistics I and Introduction to Epidemiology to take this course)

# Outside the programme:

- Financial Administration Public Finance and Budgeting\*\* (Semester 1)
- Monitoring and Evaluation in Primary Health Care\*\*\* (Semester 1)
- Religion and Public Health in Africa\*\* (Semester 2)
- Public Policy\*\* (Semester 2)
- \*\* Eligibility for these courses is subject to availability and approval by the relevant department in the Faculty of Humanities, University of Cape Town
- \*\*\* Eligibility for this course is subject to approval by the School of Public Health, University of the Western Cape

## **HEALTH SYSTEMS TRACK**

## **Track Convenor:**

## Associate Professor Jill Olivier

The Health Systems track is intended for those candidates who have an interest in seeking to change, managing within, or researching the health system. The focus is the health system as a whole - rather than particular health services, or condition specific programmes or health problems. Health system concerns address the complex range of factors that underpin service delivery (such as human resource development and management, financing and resource allocation, information systems, supply chain management and overarching models of care).

Understanding how these factors interact and influence health system performance is an essential starting point for thinking about how to change and strengthen the system. Also important is understanding the politics of policy change, the factors influencing whether health system reforms and wider health interventions are developed and implemented in ways that support achievement of their goals.

Students in the Health Systems track come from multidisciplinary backgrounds (such as the social sciences, clinical, economic, management studies and many others), and in the degree are encouraged to build interdisciplinary skills.

The seven compulsory courses give a grounding in the multi-disciplinary perspectives relevant to understanding and working at the level of the overarching health system.

Three electives can be taken from other courses within the MPH, from courses offered in other faculties or from courses offered by the University of the Western Cape. MPH students on the track can choose from a range of electives, as they are encouraged to gain a broad set of skills and experiences.

The dissertation must address health systems issues and must employ methods suitable to the question of focus. Candidates may only switch to the Health Systems track from other tracks with the permission of the convenor. Since places are limited, such permission is not guaranteed.

## EXAMPLE OF TWO YEAR COURSEWORK TIMETABLE: HEALTH SYSTEMS TRACK

First year				
Semester 1	Introduction to Health Systems	Public Health and Society	Introduction to Epidemiology	
Semester 2	Health Systems Research and Evaluation	Health Policy and Planning	The Economics of Health Systems	
Second year				
Semester 1	**Quantitative/ Qualitative Research Methods	*Elective		
Semester 2	*Elective	*Elective		

## **Compulsory Courses:**

PPH7016F Public Health & Society
PPH7018F Introduction to Epidemi

PPH7018F Introduction to Epidemiology PPH7093F Introduction to Health Systems

PPH7041S Health Policy & Planning

PPH7094S Health Systems Research & Evaluation PPH7077S The Economics of Health Systems

Either (depending on student background):

PPH7071F Qualitative Research Methods

OR

PPH7070S Quantitative Research Methods

\*\* Students can select between Quant/Qual Research methods depending on their existing skillset. In the HS Track, we require students to build a balanced interdisciplinary portfolio. For example, students coming from a strong social science are encouraged to select *Quantitative* Research Methods; whereas others would be encouraged to do *Qualitative* Research Methods. Please discuss this selection with the track convenor

Students may take up courses in different configurations than demonstrated in the above example.

Introduction to Health Systems and then Health Systems Research and Evaluation should be undertaken in the first year of study for HS track students.

## Electives (3) can be chosen from \*:

- The Master of Public Health Programme
- Approved masters level courses from other UCT departments (e.g. Faculty of Humanities)
- Other universities (e.g. UWC approved courses)

We encourage HS students to select widely from available elective courses – the track convenor can assist you in selecting courses that will balance out your particular interdisciplinary skills/experience.

It is important for candidates to confirm the timetable and their eligibility for the elective course that they have chosen and to obtain approval both from the department offering the elective courses and from the convener of the MPH Health Systems specialization

## Suggested MPH HS electives are:

- PPH7091S Qualitative Data Analysis
- PPH7039F Theory and Application of Economic Evaluation in Healthcare
- PPH7053S Public Health and Human Rights
- PPH7065S Epidemiology of Non-communicable Diseases
- PPH7089S Public Health Practicum

Plus the required Public Health minor dissertation (PPH7015W) Health Systems Track students are usually encouraged to begin framing their thesis proposal in the second semester of their first year of study (during Health Systems Research and Evaluation).

#### **COMMUNITY EYE HEALTH TRACK**

## Track Convenor: Dr Deon Minnies

Community eye health is the application of health promotion and disease prevention, together with the delivery of curative services, at the primary, secondary, and tertiary level of health care, in order to reduce eye disease, visual loss, and disability in a community. Community eye health considers the eye health of whole populations, and how these can be assessed and provided for.

The community eye health track is aimed at candidates who are working or plan to work in blindness prevention programmes. These may include national eye health coordinators, district eye health programme managers, and clinical professionals working in eye health programmes. It is planned primarily with the intention that the participants would be able to undertake appropriate clinical and operational research that might inform the planning and management of eye health programmes.

There are two compulsory courses. The courses might be taken over one year as a full-time student, or over two or more years in a part time capacity. The dissertation should address a relevant community eye health issue and should include appropriate research methods.

# **EXAMPLE OF ONE YEAR COURSE WORK TIMETABLE: COMMUNITY EYE HEALTH (CEH)**

First year					
Semester 1	CEH 1	CEH 2	Introduction to Epidemiology	Introduction to Health Systems	Biostatistics I
Semester 2	Biostatistics II	Quantitative Research Methods	Epidemiology of non- Communicable Disease	Health Policy and Planning	Evidence Based Health Care

Variations in this timetable may be discussed with the trackconvenor.

#### SOCIAL & BEHAVIOURAL SCIENCES TRACK

#### **Track Convenors:**

## **Associate Professor Lucia Knight**

The Social and Behavioural Sciences track is intended for those candidates with an interest in the social or behavioural aspects of public health. Some experience or background in the social or behavioural sciences desirable but not a pre-requisite. We seek candidates who want to understand how knowledge and methods from the social and behavioural sciences (including but not limited to psychology, social anthropology, sociology and history) in these disciplines can be applied to public health practice and improve our understanding of the social and behavioural factors that influence public health.

Graduates from the SBS track will emerge with skills in conducting social and behavioural science research. Students will also gain knowledge about the field of social and behavioural sciences, its intersections with other public health-relevant disciplines, and its application in a public health context.

Ten courses—of which six are core—are required, as is a mini-dissertation. Four electives can be taken from other courses within the MPH, from courses offered in other Faculties, or from courses offered by the University of the Western Cape. Please note that four of the core courses, Public Health and Society, Qualitative Research Methods, Gender and Sexual and Reproductive Health and Qualitative Data Analysis, include group work components. Students are therefore expected to attend all of the semester sessions, in addition to the block week sessions unless this has been discussed and approved by the course convener.

The mini-dissertation must address a social or behavioural science research question, and must employ qualitative and/or quantitative methods suitable to the question of focus. The track convenor will set overall guidelines for the theoretical and methodological content of the mini-dissertations. Individual

dissertation topics and methods must also be approved by the track convenor.

Candidates may only switch to the Social and Behavioural Sciences track from other tracks with the permission of the convenor. Since places are limited, such permission is not guaranteed.

## EXAMPLE OF TWO YEAR COURSEWORK TIMETABLE: SOCIAL AND BEHAVIOURAL SCIENCES TRACK

First year				
Semester 1	Public Health and Society	Introduction to Epidemiology		*
Semester 2	Public Health and Human Rights	Gender and Sexual and Reproductive Health	*	*
Second year				
Semester 1	Qualitative Research Methods	*	*	*
Semester 2	Qualitative Data Analysis	*	*	*

The above courses are compulsory. Please note that Qualitative Data Analysis may also be taken in the first year of registration if students wish to do so.

## \*Possible electives:

- Public Health Practicum (Semester 1 or 2)
- Introduction to Health Systems (Semester 1)
- Health Policy and Planning (Semester 2)
- Quantitative Research Methods (Semester 2)
- ANS5419FS The Meat of the Matter Food, Gender and Planetary Health (Semester 1, subject to change)
- ANS5420FS Health, Dis-ease and Society Past, Present and Future (Semester 2, subject to change)
- AXL5412F Critical Medical Humanities in Africa (tbc)

#### **ENVIRONMENTAL HEALTH TRACK**

#### **Track Convener:**

#### **Professor Hanna-Andrea Rother**

The Environmental Health track is intended for those candidates who are interested in understanding the environmental determinants and influences on human health, the policy implications, and how to identify, reduce and manage environmental health risks. Candidates will develop an understanding of key environmental health burden of diseases (i.e., chemicals, climate change, indoor and outdoor air pollution and the built environment) with a particular focus on environmental justice and children's environmental health issues. Coursework will prepare candidates to identify suitable interventions for decision makers to community residents.

Ten courses (six core and four electives) and a mini-dissertation is required for this track (see table). The six compulsory courses provide grounding in environmental health policy (e.g., environmental justice, rights-based risk management, public policy), risk management and assessment, as well as risk communication and interventions (e.g., implementation science, research translation). Four electives can be taken from other courses within the MPH, from courses offered in other faculties or from the Post Graduate Diploma in Pesticide Risk Management (MG012) or the Master's in Chemicals Risk Management (MM037) offered by the Division of Environmental Health. When selecting electives, students should consider their areas of interest (e.g. environmental epidemiology, climate change) and the kind of research methods they would like training in (e.g. quantitative and qualitative).

The mini-dissertation must address an environmental health related research question and must employ the appropriate quantitative or qualitative research methods for this question. Students are expected to choose a supervisor in relation to their research question. Individual dissertation topics and methods must be approved by the track convenor.

## EXAMPLE OF TWO YEAR COURSEWORK TIMETABLE: ENVIRONMENTAL HEALTH TRACK

The "unstarred" courses are compulsory. Four electives\* are required.

First year				
Semester 1	Public Health and Society	Introduction to Epidemiology	* Elective	
Semester 2	Children's Environmental Health	Climate Change Pollution and Health	Quantitative Research Methods	
Second year	Second year			
Semester 1	Environmental Health and Policy	* Elective		
Semester 2	* Elective	* Elective		

Suggested electives (\*) students can take include:

- Management of Environmental Risk (Ecotoxicology; MG021 course);
   Semester 1
- Risk Communication and Policy Brief (MM037 course, online);
   Semester 1
- Public Health and Pesticides (Vector Management; MG021 course);
   Semester 1 and 2
- International Chemicals Management Agreements and Chemical Conventions (MG021 course; online); Semester 1 and 2
- Core Course in Chemicals Risk Management (MM037 course, online);
   Semester 1
- Research Literacies (MM037 course; online); Semester 2
- Health and Safety Management (Toxicology (MG021 course); Semester
- Chemical Risk Assessment for Managers (MM037 course, online);

- Semester 2
- Public Health and Human Rights; Semester 2
- Biostatistics I and II; Semester 1
- Public Health Practicum on an environmental health topic; Semester 1 and 2
- Qualitative Research Methods (requires convener approval; Semester 1)
- Qualitative Data Analysis (requires convener approval; Semester 2)
- Epidemiology of Non-communicable Diseases (Semester 2)
- Health Policy and Planning
- The Economics of Health Systems
- Climate Change & Sustainability (Department of Environmental and Geographical Sciences, Faculty of Science, Upper Campus)
- Introduction to Climate Change and Sustainable Development (Department of Environmental and Geographical Sciences, Faculty of Science, Upper Campus)
- Climate Change Adaptation and Mitigation (Department of Environmental and Geographical Sciences, Faculty of Science, Upper Campus)

#### **GENERAL PUBLIC HEALTH TRACK**

As of 2019, we do not offer admission into the General track. However, candidates may switch from the Epidemiology & Biostatistics, Health Systems, Social & Behavioural Sciences or Environmental Health tracks to the General Public Health track with the permission of the programme convenor. Generally, changing into the General Public Health track takes place due to special circumstances that students may encounter during their studies.

## EXAMPLE OF TWO YEAR COURSEWORK TIMETABLE: GENERAL TRACK

First year				
Semester 1	Public Health and Society	Introduction to Epidemiology	Biostatistics 1	* *
Semester 2	* *	Quantitative Research Methods	* *	* *
Second year				
Semester 1	Introduction to Health Systems*	* *	* *	* *
Semester 2	Health Policy and Planning *	* *	* *	* *

The "unstarred" courses are compulsory.

- \* Alternates for fifth compulsory course
  - \*\* Potential slots for electives (maximum 5)
  - \*\* Health Economics courses may be chosen as electives subject to entry requirements for each course.

Note: Candidates may do up to five courses per semester, although this is very demanding, and is subject to timetabling.

### 7. GUIDELINES: MPH 'MINI-DISSERTATION'

#### MPH MINI-DISSERTATION

#### 7.1 Scope and standard

The MPH is primarily a coursework degree. The mini-dissertation thus needs to be distinguished from that required for a Masters by thesis alone.

The purpose of the dissertation is to show that the candidate is able to carry out supervised research, has a grasp of the research tools in the chosen field and is familiar with the more important publications on the subject. It should also demonstrate that the candidate is able to communicate results and to evaluate his or her own work and that of others critically.

A mini-dissertation should have a limited focus and scope, e.g. on one research question rather than many. Candidates will need to work closely with their supervisor to focus the question and manage the scope. The research is often a secondary analysis, or one smaller aspect of a larger research project.

The standard of presentation for the journal article component is a manuscript formatted for submission to a peer-reviewed academic journal. The publication worthiness of the work is not directly related to mark, and the publication worthiness of the manuscript is not a pass/fail criterion. However strong dissertations will be more likely to be awarded higher marks as well as be suitable for publication.

## 7.2. Weighting

The MPH currently weights the mini-dissertation at 33% of the total programme mark for all tracks except the Health Economics track (i.e. for General Public Health, Epidemiology & Biostatistics, Health Systems, Social & Behavioural Sciences, Environmental Health and Community Eye Health). The remaining two thirds is made up of ten courses.

The MPH Health Economics track weights the dissertation at 50% of the programme mark with the remaining 50% made up of eight courses. In turn, the dissertation rules for the Health Economics track are different to those for the other tracks.

The mini-dissertation and coursework have to be passed independently, i.e. the coursework mark cannot compensate for a fail on the mini-dissertation, and vice versa.

To be awarded the degree with distinction, at least 70% is required on the dissertation. See section 2.9 of brochure for the rule regarding programme distinction.

### 7.3. Structure

For the Health Systems, Environmental Health, Social & Behavioural Sciences, Epidemiology & Biostatistics, Community Eye Health and General tracks, the dissertation must be structured in three parts.

#### Part A: Protocol

The protocol should include the study protocol, including a literature review, and relevant references, the Ethics Approval or clearance letter and questionnaire or data capture forms. The literature review component needs to include important literature in the field but does not have to be comprehensive or a systematic review. Detailed guidelines are given during the programme for the writing of protocols. The length must be appropriate to the study – a typical protocol without references and appendices may range from 10 to 25 pages, approximately.

The study must show evidence of empirical method. Review studies are allowed, so long as they are 'systematic' in approach (e.g. show adequate method to be scientifically replicable). The review study must be systematic in nature, whether the methodological approach is quantitative, qualitative or mixed methods.

## Part B: Journal manuscript

A manuscript of an article for a named, peer-reviewed journal. The manuscript must meet all the requirements set out in the Instructions for Authors of that journal, including word count and referencing style (The journal must allow *at least* 3 000 words). Supervisors will assist candidates to identify an appropriate

journal.

The article does *not* have to be submitted to the journal in order to meet academic requirements.

## Part C: Appendices

These will vary with the study but should typically include:

- a. Acknowledgements, including a description of the role played by each person who would be expected to be an author on a published article arising from the dissertation. In a thesis derived from work started by others, e.g. analysis of data from another project, the candidate's contribution must have been made after his/her registration and therefore under supervision. In a multi-author project, the candidate is expected to be first author.
- b. Questionnaire/data capture instrument(s) (if not appended to protocol in Part A).
- c. Ethics consent form(s) (if not appended to protocol in Part A).
- d. Selected tables or figures, with brief explanatory text, that would be useful for the examiner to see as part of the analyses but which could not be included in the article for reasons of space limitations. These should not simply be a collection of analysis printouts but should be readable as an addendum with reference to the article. E.g. these might be submitted to the journal as supplementary materials.
- e. Any technical appendices needed for example, laboratory techniques, statistical formulae.
- f. The instructions for authors for the target journal.

For the Health Economics track, the dissertation must be structured in five parts.

## Part A: Protocol

The protocol should include the study protocol, relevant references (not a full literature review), the Ethics Approval or clearance letter and questionnaire or data capture forms. Detailed guidelines will be given during the programme for the writing of protocols. The length must be appropriate to the study – a

typical protocol without references and appendices may range from 10 to 25 pages.

#### Part B: Structured literature review

A structured literature review appropriate to the subject matter and methods of the dissertation. The review should not exceed 10 000 words. This will not ordinarily be of the detail or standard required for a "Cochrane type" systematic review but will have a structured format. It needs to include important literature in the field but does not have to be comprehensive.

## Part C: Journal manuscript

A manuscript of an article for a named peer reviewed journal The manuscript must meet all the requirements set out in the Instructions for Authors of that journal, including word count and referencing style. (The journal must allow *at least* 3 000 words). Supervisors will assist candidates to identify an appropriate journal.

The article does *not* have to be submitted to the journal in order to meet academic requirements.

## Part D: Appendices

These will vary with the study but should typically include:

- a. Acknowledgements, including a description of the role played by each person who would be expected to be an author on a published article arising from the dissertation. In a thesis derived from work started by others, e.g. analysis of data from another project, the candidate's contribution must have been made after his/her registration and therefore under supervision. In a multi-author project, the candidate is expected to be first author.
- b. Questionnaire/data capture instrument(s) (if not appended to protocol in Part A).
- c. Ethics consent form(s) (if not appended to protocol in Part A).
- d. Selected tables or figures, with brief explanatory text, that would be useful for the examiner to see as part of the analyses but which could not be included in the article for reasons of space. These should not

simply be a collection of analysis printouts but should be readable as an addendum with reference to the article. E.g. these might be submitted to the journal as supplementary materials.

- e. Any technical appendices needed for example, laboratory techniques, statistical formulae.
- f. The instructions for authors for the target journal.

#### Part E:

An editorial/opinion piece/policy brief of up to 3 000 words.

## 7.4 Total length and page set-up

There is no strict overall length requirement.

## Page set-up:

- Left margin at least 2.5cm; right margin about 2.5cm.
- Use A4 page set-up
- Page numbers in the same font as the font you are using for the text. Use fonts such as Arial, Times New Roman, Book Antiqua, or Bookman Old Style. Avoid the "comic" fonts.
- Font size 11 or 12
- Set language to English [South Africa] avoid the American spellings e.g. behavior
- Line spacing of 1.5 is recommended. We also suggest that you set your spacing to allow 6pts after each paragraph this improves the look of the document and you don't have to put in an extra paragraph break.

Using size 12 font, A4 size pages and double spacing, this will typically be around 40-60 pages. References and appendices may add another 10 to 20 pages. As the dissertation for the Health Economics track requires longer individual components, a typical Health Economics dissertation will be around 100 pages in total.

## 7.5 Choice of subject matter

The dissertation can be done in any area in which coursework has been done and in which a suitable supervisor can be found. This includes health economics, epidemiology, biostatistics, health systems, health services management, clinical epidemiology and social and behavioural sciences applied to health and health care. It must be appropriate to the track chosen. If in doubt the advice of the track or programme convenor should be sought. There may be limitations on choice of a subject, research methodology or subject area owing to lack of a suitable supervisor.

## 7.6 Choice of methodology

The research should involve collection of data using quantitative or qualitative methods or a combination of the two (or formal review methods if a systematic review). Data may derive from interviewing, observing or examining research participants, or from publications, records, registration or notification systems or other databases.

## 7.7 Use of prior or collaborative work

Candidates are encouraged to arrive with a topic of interest. However, the principle is that a substantial part of the research should be completed during the degree period under supervision. *Analysis of already collected data or secondary data analysis is allowed*. In such cases, analysis and write up of these data would form the basis of the dissertation.

In the case of collaborative work, the role of each contributor should be clearly stated in the Acknowledgements section. (In collaborative work, the candidate would be expected to be the first author of any publication arising from the dissertation work).

## 7.8 Time planning

The earlier the protocol development is commenced, the better. Candidates need to pace their dissertation progress according to graduation horizon. For example, candidates seeking to graduate within two years should have their

protocol ready towards the end of the first year and data collected and/or analysis completed by May of the second year. See section 7.11 below for hand-in deadlines. See section 2.6 earlier in this brochure for rules regarding time limits on registration.

## 7.9 Finding supervisors

Candidates are encouraged to seek out their own supervisor within the School, faculty or university, who should ideally be knowledgeable in the content and methods of the subject area. Candidates should feel free to approach the programme convenor or staff for guidance. Additional statistics guidance may be needed – candidates should approach the staff who teach biostatistics in the first instance.

## Please take note of the following when selecting a supervisor:

Generally the student must be registered for a degree in the department of the main supervisor. The co-supervisors may be from other departments/faculties or even may be external. This applies to both full research Masters and PhD students. Deviations from this are possible, allowing the main supervisor to be from outside the department in which the student is registered, but this should be discussed in advance with the programme convenor.

A co-supervisor may be based inside or outside the university – in all cases, at least one internal (UCT) supervisor is required to serve as a guide and link to university procedures.

Both the supervisors and co-supervisors retain responsibilities to the candidate and the University, and their willingness and ability to meet these responsibilities until the dissertation process is complete, i.e. graduation, needs to be established by the candidate in advance. Supervisors and candidates are required to sign a Memorandum of Understanding and Progress Report annually.

First time supervisors must have a UCT co-supervisor. There is no provision for payment of external co-supervisors.

## 7.10. Approval of Research Protocol

### 7.10.1 Departmental approval

Departmental ("School") approval for a research proposal must be sought by submitting a proposal form (available on the postgraduate website) and the proposal as soon as it is ready, to the Departmental Research Committee Administrator, Liza Smith. The form should be signed by the supervisor(s) undertaking to act as supervisor(s) and approving the proposal.

## 7.10.2 Ethics approval

This is not the same as Departmental approval. This should be sought by submitting a proposal to the Faculty of Health Sciences Human Research Ethics Committee, using the Ethics Committee application form (available on the postgraduate website) Many sections of this form will not be applicable, and should be marked "N/A".

Please note that per University guidelines, the supervisor of the student must be listed as the Principal Investigator on the submission to the Faculty of Health Sciences Human Research Ethics Committee.

If the protocol is later changed in a way which has ethical implications, fresh approval of the change needs to be sought.

No data should be collected before a letter is received from the Human Research Ethics Committee, with at least provisional approval. Such letters should be kept by the candidate.

If the research has received ethics approval from an outside institution, the proposal must still be reviewed by the Faculty Human Research Ethics Committee. The prior approval letter must be submitted. Dissertation proposals based on analysis of secondary data not in the public domain should also be submitted.

Expedited review is given in most cases. If in doubt, the chairperson of the Departmental Research Committee should be contacted for advice.

## 7.10.3 Department of Health Approval

In addition to UCT Research Ethics Committee approval, any primary research taking place in a provincial or local authority health department facility, such as hospitals or clinics, must be submitted to the relevant provincial or local authority for access approval. This can only be done after departmental and ethics approval have been obtained.

#### 7.11 Submission of dissertation

Details on the process of submitting the mini-dissertation are available from the programme administrator and the Faculty of Health Sciences Postgraduate Office. All submissions are digitally uploaded, hard copies are not required.

The submission deadline for April graduation is generally around **1 September** and for December graduation around **the end of June** of the same year. The Faculty of Health Sciences Postgraduate Office must be informed at least 6 weeks in advance by way of a digitally uploaded Intention to Submit form. The contact person at the Post Graduate office is: Mrs. Adri Winckler, email: adri.winckler@uct.ac.za

The supervisor will be asked by the Faculty Officer to submit a form supporting submission. Co-supervisors should do this in cooperation with the supervisor. Candidates are strongly advised to have their supervisors' approval before submitting.

All candidates have to pay the full dissertation fee at least once. A rebate on the annual dissertation fee may be obtained in the second or subsequent years of registration of the dissertation if the dissertation is submitted early in the year.

Candidates who do not or cannot make the end of June deadline may hold over submission to the beginning of the following year. If submission occurs before the last date permitted for registration (see below), the candidate will be given a

"technical registration" for purposes of dissertation examination and no fees will be charged.

Dissertations thus need to be submitted before the beginning of the first semester i.e. early February, to avoid attracting further fees; for rebates the dissertation must be submitted before the start of the second semester for a 50% fee rebate of fees; before early March for a 75% rebate and before early August for a 25% rebate.

#### 7.12 Examiners

Three examiners are nominated by the supervisor, two of whom are invited to examine, and one held as an alternate. One examiner must be internationally based. All examiners must be external to UCT. These nominations are circulated to the Faculty Dissertations Committee for approval.

It is *the supervisor*'s responsibility (with co-supervisors as relevant) to submit names of potential examiners to the Faculty Officer when the candidate is ready to submit. The examiners will be sent this dissertation guideline to enable them to judge the standard required.

Supervisors are encouraged to secure agreement in advance from examiners as this expedites the process. The details required from each examiner are: position and institutional affiliation, academic qualifications, postal and or physical address, telephone and fax numbers and email address, and a one paragraph description of their standing in the relevant field. Examiners will be asked by the faculty not to communicate with supervisors during the examination process, but rather with the faculty postgraduate officer, if they have any queries.

The candidate may not be informed of the identity of the examiners. After the outcome of the dissertation has been finalised, the examiners' identities are made known if the examiners have indicated that they do not object to this.

#### 7.13 Publication

Candidates are *not* required to publish their research for purposes of the qualification. However, where research participants have contributed time,

effort or resources, failure to meet dissemination or publication commitments made in the Ethics section of the research protocol or on a consent form can be regarded as unethical. Reporting or dissemination commitments should be met as soon as possible after the research is completed. Likelihood of being able to meet such commitments should be taken into account when preparing the protocol and consent form.

Candidates are encouraged to undertake to publish the study if of appropriate standard, with the supervisor(s) as a co-author(s). This will almost always require work beyond the graduation date.

Other co-authors on a publication arising out of the dissertation could include anyone who has made a substantial intellectual or academic contribution to the study. Measures of this contribution include time spent on developing the proposal, assisting with the analysis, reviewing results and assisting with their interpretation.

## 7.14 Language and writing

Clear, grammatically correct English is essential. Candidates who have difficulties are encouraged to seek help from the writing support facilities on main campus (see: http://www.ched.uct.ac.za/adp/writing/). Supervisors are not required to do detailed editing or correction of spelling, grammar or style. They may refer candidates elsewhere for this, at the candidate's own expense.

## 7.15 Layout, style, etc.

As long as the thesis is readable and internally consistent, any of a number of styles is acceptable. The Harvard style for referencing is recommended. In this style, referencing is by first author in parentheses in the text and the bibliography is listed alphabetically (rather than using numerical superscripts in the text). A guide to the Harvard (and other styles) can be found at http://www.lib.uct.ac.za/wp-content/uploads/2012/08/harvarduct-2012.pdf

It is suggested that candidates look at previous examples of MPH theses in the library for appealing layouts. The School has a database of previous dissertation titles on the School's website: http://www.publichealth.uct.ac.za/

Previous MPH dissertations are available in hard copy in the Health Sciences Library. MPH dissertations date from 2000 onwards. The library should be asked for assistance. A number of dissertations from recent years are available online (which includes PhD theses and MMed dissertations in public health): The URL can be found on the MPH website.