



Medicine, Nursing and Health Sciences

## 2012 Postgraduate Courses in Public Health and Preventive Medicine

Department of Epidemiology & Preventive Medicine,  
Alfred Hospital



Department of Epidemiology and Preventive Medicine  
School of Public Health and Preventative Medicine  
The Alfred Centre,  
99 Commercial Road,  
Melbourne VIC 3004 Australia

# Welcom

Creating Knowledge  
for Improved Health

“ With our absolute  
commitment to  
teaching excellence,  
we offer a truly  
global education. ”



## Postgraduate study at Monash can open many doors.

Monash offers a wide range of postgraduate courses that give our students access to flexible learning options and research opportunities. We are dedicated to preparing our students for serving the community in an increasingly competitive job market, and as a result, Monash graduates are highly sought after by employers worldwide.

The School of Public Health and Preventive Medicine is one of the largest schools within the Monash University Faculty of Medicine, Nursing and Health Sciences.

As a centre of excellence dedicated to learning and research, our School plays a prominent role in public health medicine in Australia working closely with the major Monash affiliated hospitals, research institutes and public health units. Our core skills relate to epidemiology (the study of the distribution, risk factors and causes of disease) and its application to problems in clinical medicine and public health which provide a key resource underpinning translational research with our Faculty. We have particular expertise in large epidemiological studies, multicentre clinical trials, clinical registries, evidence synthesis and health social science.

We are respected as an institution that embraces new ideas and opportunities as well as fostering a culture of innovation. We strive to engage with issues that are currently shaping the world and influencing human health and we are actively involved in public health projects globally. Taking part in our postgraduate courses in public health and related areas is exciting, challenging and intellectually stimulating.

With a strong tradition of success for nearly 30 years, our department, and our collaborators are at the forefront of postgraduate education in public health, clinical research methods, health services management, international health and occupational and environmental health. From humble beginnings in 1981, when we accepted our first small intake of MPH students, we have developed a vibrant and interactive program of seventeen postgraduate courses which in 2011 enrolled over 460 local and international students.

I welcome you to the Monash community and personally invite you to participate in our postgraduate coursework programs.

**Professor John McNeil**

Head

School of Public Health and Preventive Medicine  
Department of Epidemiology and Preventive Medicine

### Course enquiries

E: [pgradenq@monash.edu](mailto:pgradenq@monash.edu)

W: [www.med.monash.edu.au/epidemiology/pggrad/](http://www.med.monash.edu.au/epidemiology/pggrad/)

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#### Using this guide

*This guide contains general information on the postgraduate courses offered for 2012 in the Department of Epidemiology and Preventive Medicine (DEPM). All information is correct at the time of printing, September 2011. All changes to the DEPM timetable will be published on our webpage: [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)*

# Postgraduate Courses 2012

	Code	CRICOS	Units	Credit Points
<b>Public Health</b>				
Master of Public Health	0046	021280B	12	72
Doctor of Public Health	3403	038563G		
<b>Biostatistics</b>				
Graduate Certificate in Biostatistics	3420	n/a	4	24
Graduate Diploma in Biostatistics	3421	n/a	8	48
Master of Biostatistics	3422	n/a	12	72
<b>Clinical Research Methods</b>				
Graduate Certificate in Clinical Research Methods	3416	n/a	4	24
Graduate Diploma in Clinical Research Methods	0702	0289561	8	48
Master of Clinical Research Methods	2311	072000D	12	72
<b>Health Services Management</b>				
Graduate Certificate in Health Services Management	2870	n/a	4	24
Graduate Diploma in Health Services Management	2314	037848B	8	48
Master of Health Services Management	2872	038564F	12	72
<b>International Health</b>				
Graduate Diploma in International Health	1884	030778A	8	48
Master of International Health	3874	054588J	12	72
<b>Occupational and Environmental Health</b>				
Graduate Certificate in Occupational Health	2868	n/a	4	24
Graduate Diploma in Occupational and Environmental Health	0160	037584D	8	48
Master of Occupational and Environmental Health	2312	028957E	12	72

Monash University CRICOS provider code: 0008C / March 2002

# Public Health

Master  
Doctor

## Master of Public Health

**Course code:** 0046

**CRICOS code:** 021280B

**Study mode:**

**Local students:** On or off-campus + block, partial block or off-campus with compulsory block requirements.

**International students:** On-campus.

**Study length:**

**Part-time:** 3 years @ 2 units per semester

**Full-time:** 1.5 years @ 4 units per semester

**Course structure:**

**3 core units +**

- **9 elective units, or**
- **5–7 elective unit and a minor research project equivalent to 2 units, or a major research project equivalent to 4 units**

### Master of Public Health

#### Core units (3)

MPH1040 Introductory epidemiology<sup>#</sup>

MPH1041 Introductory biostatistics<sup>#</sup>

MPH2013 Research methods *OR*

MPH2049 Field methods for international health planning & evaluation (for international health stream)

#### Elective Health Streams

Clinical Research Methods

Disease Prevention and Health Promotion

Health Economics

Health Services Management

International Health

Occupational and Environmental Health

Research

General Stream

MPH2073 Case study for health services (equivalent to 2 elective units) – Final year alternative option.

*This unit provides an opportunity to explore in detail a complex problem in the student's workplace or health care setting – subject to Course Coordinator's approval.*

#### Our MPH provides you with

- Greater flexibility in unit choices
- Choice of on-campus or off-campus streams
- Graduate Certificate / Graduate Diploma exit option
- Greater number of units offered in a flexible delivery mode
- Case Study / Practical experience opportunity in final year

**This 12-unit course provides students with the full range of quantitative, analytical and communication skills necessary to work in the broad domain of public health. It especially focuses on developing skills in the quantitative methods of the population-based health sciences and their problem-solving application for primary care provision both in Australia and for developing countries.**

The MPH offers a greater number of units for students to self-tailor a stream to meet their specialist needs; units are offered in flexible delivery mode e.g. on-campus, off-campus, block mode or on-line.

Health specialisation streams are offered in: Clinical Research Methods, Health Economics, Disease Prevention and Health Promotion, Health Services Management, International Health, Occupational and Environmental Health and Research.

Students can exit with a Graduate Diploma or Graduate Certificate providing the approved selection of units are completed.

#### Entry requirement

You must have an undergraduate degree in an appropriate discipline and relevant professional experience. Your application will also be considered if you do not have a degree but have extensive relevant experience.

International Entry Requirements refer to the University International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

## Recommended Enrolment: Health Specialisations

### Clinical Research Methods stream

#### Part-time

##### Semester 1 – Year 1

MPH1040 Introductory epidemiology<sup>#</sup>

MPH1041 Introductory biostatistics<sup>#</sup>

##### Semester 2

MPH2013 Research methods<sup>#</sup>

MPH2083 Ethics, good research practice & practical research skills (OCL)

##### Semester 1 – Year 2

MPH2037 Clinical measurement (OCL)

Elective

##### Semester 2

MPH2036 Clinical trials (OCL)

MPH2039 Meta analysis & systematic reviews (OCL)

##### Semester 1 – Year 3

MPH2000 Regression methods for epidemiology (OCL)(E)

MPH2002 Clinical epidemiology (OCL)(E)

##### Semester 2

MPH2070 Advanced statistical methods for clinical research (OCL)(E)

Elective

#### Elective options (E)

MPH2007 Chronic diseases: epidemiology & prevention

MPH2018 Infectious diseases: epidemiology & prevention

MPH2056 Injury epidemiology & prevention (next offered in 2012)

MPH2060 Health policy & prevention in a global world

MPH2070 Advanced statistical methods for clinical research

MPH2077 Data management & computing

MPH (unit code) postgraduate units

Minor project (7,000-8,000 words) – prerequisites apply

**Stream coordinator:** Associate Professor A Cheng

**Email:** allen.cheng@monash.edu

#### Assessment

Assessment includes web-based tasks, written exercises, assignments, examinations, presentations, class participation and optional supervised project. These are dependent on unit specific requirements.

#### Professional recognition

This degree is recognised as a public health qualification in a number of professional fields. It fulfils the academic coursework requirements of the Australasian Faculty of Public Health Medicine.

#### Career fields

Wide diversity of fields within the health sector, including professional practice, research, public health sector, management positions within health care facilities, international positions with aid organisations or in developing countries.

#### Further information

##### Course coordinator:

Dr Robert Hall

**E:** robert.hall@monash.edu

**W:** www.monash.edu.au/pubs/handbooks/

#### NOTE:

Core units are highlighted in **bold black**.

<sup>#</sup> MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester

<sup>#</sup> Available in on and off-campus mode

▪ Timely enrolment is encouraged as quotas apply

◆ Scheduled outside standard semester

OCL = Off-Campus Learning

**Students must complete compulsory block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:** www.med.monash.edu.au/epidemiology/pgrad/

**Recommended Enrolment: Health Specialisations** *(continued)***Disease Prevention and Health promotion stream****Part-time****Semester 1 – Year 1**MPH1040 Introductory epidemiology<sup>#</sup>MPH1041 Introductory biostatistics<sup>#</sup>**Semester 2**MPH2013 Research methods<sup>#</sup>

MPH2060 Health policy and prevention in a global world

**Semester 1 – Year 2****HSC5002 Foundations of health promotion and program planning**

Elective

**Semester 2****HSC5022 Evaluating public health programs**

Elective

**Semester 1 – Year 3**

Elective x 2

**Semester 2**

Elective x 2

**Elective options (E)**

HSC5032 Health literacy

MPH2007 Chronic disease: epidemiology and prevention

MPH2018 Infectious diseases: epidemiology and prevention

MPH2055 Health and human rights

MPH2056 Injury epidemiology and prevention

MPH2057 Aboriginal health

MPH2069 Foundations of health policy

MPH2082 Health communication and training

MPH5042 Climate change and public health

MPH (unit code) postgraduate units

Minor project (7,000–8,000 words) – prerequisites required

**Stream coordinator:** Dr B Smith**Email:** ben.smith@monash.edu**Health Economics stream****Part-time****Semester 1 – Year 1**MPH1040 Introductory epidemiology<sup>#</sup>MPH1041 Introductory biostatistics<sup>#</sup>**Semester 2**MPH2013 Research methods<sup>#</sup>

ECX9730 Economic evaluation in health care (OCL)

**Semester 1 – Year 2****ECX9700 Introduction to health economics (OCL)**

ECX9120 Introduction to microeconomics theory &amp; practice (OCL)(E)

**Semester 2**

ECX9710 Pharmaceutical economics (OCL)(E)

**ECX9741 Applied health economics & health policy (summer)****Semester 1 – Year 3**

MPH2068 Financial issues in health care management (E)

ECX9750 Health economics for developing countries (Block) (E)

**Semester 2**

Elective x 2

**Elective options (E)**

MPH (unit code) postgraduate unit

**Stream coordinator:** Ms J Watts**Email:** jenny.watts@monash.edu**NOTE:**

Core units are highlighted in bold black.

<sup>#</sup> MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester<sup>#</sup> Available in on and off-campus mode

▪ Timely enrolment is encouraged as quotas apply

◆ Scheduled outside standard semester

OCL = Off-Campus Learning

**Students must complete compulsory block attendance.****International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

## Health Services Management stream

### Part-time

#### Semester 1 – Year 1

MPH1040 Introductory epidemiology<sup>#</sup>  
MPH1041 Introductory biostatistics<sup>#</sup>

#### Semester 2

MPH2013 Research methods<sup>#</sup>  
MPH2067 Principles of health care quality improvement (OCL)

#### Semester 1 – Year 2

MPH2066 Clinical leadership & management (OCL)  
MPH2069 Foundations of health policy (OCL)(E)

#### Semester 2

MPH2072 Reform & development of health services (OCL)(E)  
MPH2065 Law for health systems (OCL)(E)

#### Semester 1 – Year 3

MPH2068 Financial issues in health care management (OCL)(E)  
Elective

#### Semester 2

Electives x 2

#### Elective options (E)

MPH2085 Human factors for patient safety  
MPH2086 Applying & practicing the principles of patient safety & quality improvement  
MPH5042 Climate change & public health  
MPH (unit code) postgraduate units  
ECX9700 Introduction to health economics

**Stream coordinator:** Professor J Stoelwinder

**Email:** [just.stoelwinder@monash.edu](mailto:just.stoelwinder@monash.edu)

## International Health stream

### Part-time

#### Semester 1 – Year 1

MPH1040 Introductory epidemiology<sup>#</sup>  
MPH1041 Introductory biostatistics<sup>#</sup>

#### Semester 2

MPH2048 Primary health care in developing countries  
MPH2049 Field methods for international health planning and evaluation

#### Semester 1 – Year 2

Elective x 2

#### Semester 2

Elective x 2

#### Semester 1 – Year 3

Elective x 2

#### Semester 2

Elective x 2

#### Elective options (E)

EPM5020 Comparative moral theory  
EPM5021 Ethical research with at risk populations  
EPM5023 Health research and exploitation of low income countries  
EPM5024 Legal issues in research  
EPM5025 Human research ethics committees: ethical review of research and research governance  
MPH2050 Health of women and children in developing countries  
MPH2051 Communicable diseases control in developing countries  
MPH2053 Public health in refugee settings  
MPH2054 Nutrition in developing countries  
MPH2055 Health and human rights  
MPH2057 Aboriginal health  
MPH2058 Effective responses to HIV in developing countries  
MPH2069 Foundations of health policy  
MPH2082 Health communication and training  
MPH5087 Alcohol and other drugs in society: A national and global perspective  
MPH5042 Climate change and public health  
ECX9750 Health economics for developing countries  
CRH5047 Health ecology and environmental change *subject to availability*  
MPH (unit code) postgraduate units  
Minor project (7,000–8,000 words) – prerequisites required

**Stream coordinator:** A/Prof Bebe Loff

**Email:** [bebe.loff@monash.edu](mailto:bebe.loff@monash.edu)

#### NOTE:

Core units are highlighted in **bold black**.

<sup>#</sup> MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester

<sup>#</sup> Available in on and off-campus mode

▪ Timely enrolment is encouraged as quotas apply

◆ Scheduled outside standard semester

OCL = Off-Campus Learning

**Students must complete compulsory block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

**Recommended Enrolment: Health Specialisations** *(continued)***Occupational and Environmental Health stream****Part-time****Semester 1 – Year 1**

MPH1040 Introductory epidemiology<sup>#</sup>  
 MPH1041 Introductory biostatistics<sup>#</sup>

**Semester 2**

MPH2013 Research methods<sup>#</sup>  
 MPH1003 Environmental influences on health (OCL)

**Semester 1 – Year 2**

MPH2041 Introduction to occupational health & safety (OCL)  
 MPH2042 Psychosocial work environment (OCL)(E)

**Semester 2**

MPH2044 Ergonomic & physical hazards (OCL)(E)  
 MPH2022 Assessment & control of workplace hazards (OCL)(E)

**Semester 1 – Year 3**

MPH2076 Safety management systems (OCL)(E)  
 Elective

**Semester 2**

Electives x 2

**Elective options (E)**

MPH5042 Climate change & public health  
 MPH2056 Injury epidemiology & prevention  
 CRH5047 Health, ecology & environmental change *subject to availability*  
 Minor project (7,000–8,000 words) – prerequisites apply  
 MPH (unit code) postgraduate units

**Stream coordinator:** Professor M Sim

**Email:** malcolm.sim@monash.edu

**Research stream**

**Prerequisites:** Distinction (70%) – High Distinction (80%) in the units: MPH1040 and MPH1041. **Consultation with the Project Coordinator is required prior to enrolment in the research project.**

**Recommended:** Distinction (70%) in the units: MPH2013 or MPH2049.

**Part-time****Semester 1 – Year 1**

MPH1040 Introductory epidemiology<sup>#</sup>  
 MPH1041 Introductory biostatistics<sup>#</sup>

**Semester 2**

MPH2013 Research methods<sup>#</sup>  
 Elective

**Semester 1 – Year 2**

Elective x 2

**Semester 2**

Elective x 2

**Semester 1 – Year 3**

Major project (12,000–15,000 words) – prerequisites apply

**Semester 2**

Major project (12,000–15,000 words) – prerequisites apply

**Elective options (E)**

MPH (unit code) postgraduate unit

**Stream coordinator:** A/Prof B Gabbe

**Email:** belinda.gabbe@monash.edu

**General stream****Part-time****Semester 1 – Year 1**

MPH1040 Introductory epidemiology<sup>#</sup>  
 MPH1041 Introductory biostatistics<sup>#</sup>

**Semester 2**

MPH2013 Research methods<sup>#</sup>  
 Elective

**Semester 1 – Year 2**

Elective x 2

**Semester 2**

Elective x 2

**Semester 1 – Year 3**

Elective x 2

**Semester 2**

Elective x 2

**Elective options (E)**

MPH (unit code) postgraduate unit

**Stream coordinator:** Dr R Hall

**Email:** robert.hall@monash.edu

**NOTE:**

Core units are highlighted in bold black.

<sup>#</sup> MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester

<sup>#</sup> Available in on and off-campus mode

▪ Timely enrolment is encouraged as quotas apply

◆ Scheduled outside standard semester

OCL = Off-Campus Learning

**Students must complete compulsory block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

## Doctor of Public Health

**Course code:** 3403

**CRICOS code:** 038563G

**Study mode:**

**On-campus** + block, partial block or

**Off-campus** with compulsory block requirements.

**Study length:**

**Part-time:** 6 years

**Full-time:** 3 years

**Course structure:**

**4 core units** +

- **2 elective units (20%)**
- **13 weeks supervised practice\*\*(10%)**
- **70,000 word research thesis (70%)**

### Doctor of Public Health

#### Core units (4)

DPH6001 Advanced epidemiology

DPH6002 Statistical methods for public health

DPH6003 Advanced research methods in public health

DPH6004 Health leadership & management

DPH6005 Public health practice\*\*

#### Elective units

Two electives selected from the DEPM postgraduate units

**NOTE:**

\*\* 13 weeks supervised practice. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:**

[www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

This research doctoral program provides you as a health professional with balanced training in the theory and practice of public health, equipping you to enter a wide range of careers in epidemiology, public health practice and research. This course has three components: coursework, public health practice and research. The coursework component comprises of four core and two elective units. The public health practice comprises of a supervised practical attachment for a maximum of 13 weeks in a public health setting. The research should lead to a 70,000 word thesis.

#### Entry requirement

You must have the minimum of an upper second class honours degree in a health discipline or equivalent. Extensive relevant professional experience in the public health field. Professional experience is assessed from both a personal and referee reports.

#### Assessment

Assessment includes oral presentations, examinations and written assignments (coursework), written reports (PH practice) oral presentations and major thesis (research).

These are dependent on unit specific requirements.

#### Professional recognition

Australasian Faculty of Public Health Medicine.

#### Career fields

Public Health Administrator, Academic, Occupational Physician.

#### Application form and enquiries

Administrative Officer  
Research Degrees Office  
Faculty of Medicine,  
Nursing & Health Sciences

**T:** 03 9905 4313

**E:** [research.degrees@monash.edu](mailto:research.degrees@monash.edu)

**W:** [www.med.monash.edu.au/pgrad/research/](http://www.med.monash.edu.au/pgrad/research/)

#### Further information

**Course coordinator:**

Dr Robert Hall

**E:** [robert.hall@monash.edu](mailto:robert.hall@monash.edu)

**W:** [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# Biostatistics

Graduate Certificate  
Graduate Diploma  
Master

## Graduate Certificate in Biostatistics

**Course code:** 3420

**CRICOS code:** n/a

**Study mode:**

**Local students:** Part-time + Off-Campus Learning (OCL)

**International students:**  
n/a

**Study length:**

**Part-time:**

1 year @ 2 units per semester

**Full-time:** n/a

**Course structure:**

**1 core units + 3 elective units**

## Graduate Diploma in Biostatistics

**Course code:** 3421

**CRICOS code:** n/a

**Study mode:**

**Local students:** Part-time + Off-Campus Learning (OCL)

**International students:**  
n/a

**Study length:**

**Part-time:**

2 years @ 2 units per semester

**Full-time:** n/a

**Course structure:**

**8 core units**

## Master of Biostatistics

**Course code:** 3422

**CRICOS code:** n/a

**Study mode:**

**Local students:** Part-time + Off-Campus Learning (OCL)

**International students:**  
n/a

**Study length:**

**Part-time:**

3 years @ 2 units per semester

**Full-time:** n/a

**Course structure:**

**10 core units + 2 elective units**

The Graduate Certificate course provides you with a broad understanding of the value and basic principles of biostatistical methods in health and medical research. This program also assists you in understanding the principles of epidemiology and its biostatistical underpinnings, practical application as well as improving your computing and data management skills.

The Graduate Diploma course provides you with a broad range of theory and techniques especially designed for health professionals. This program assists you to understand the mathematical background, theory and applications of the principles of epidemiology and biostatistics in health and medical research; develops your skills in performing complex statistical analyses as for reading statistical methodological literature.

The Masters degree provides you with a sound understanding of the theory and application of biostatistics relevant to professional practice. You will acquire skills and experience in complex statistical analyses, identifying and implementing appropriate statistical methodology, communicating biostatistical results and understanding biostatistical literature. This program develops the technical skills for you to commence a professional career as a biostatistician.

**These courses are set up to articulate into the next level i.e. from Graduate Certificate (3420) to Graduate Diploma (3421) and then into the Masters (3422) program.**

### Entry requirement

MPH1041 Introductory biostatistics or equivalent is a prerequisite.

You must have a bachelor's degree in science, psychology, medicine, pharmacy, nursing or another appropriate discipline. In addition you must have at least one years work experience in a health-related field or an honours degree in mathematics for statistics, and an aptitude for advanced mathematical study.

### Assessment

Assessment includes written assignments, practical exercises and examinations. These are dependent on unit specific requirements.

### Career fields

Pharmaceutical Industry, Public Health, Clinical Research, Biostatistician (only upon completion of Masters program).

Biostatistics	Graduate Certificate	Graduate Diploma	Masters
<b>Core units</b>			
<b>Semester 1 – Year 1</b>			
MPH1040 Introductory epidemiology <sup>#</sup>	■	■	■
EPM5002 Mathematical background for biostatistics	■(E)	■	■
<b>Semester 2</b>			
EPM5007 Design of experiments & clinical trials	■(E)	■	■
EPM5014 Probability & distribution theory	■(E)	■	■
<b>Semester 1 – Year 2</b>			
EPM5003 Principles of statistical inference		■	■
EPM5005 Data management & statistical computing		■	■
<b>Semester 2</b>			
MPH5004 Linear models		■	■
EPM5009 Categorical data & generalized linear models		■	■
<b>Semester 1 – Year 3</b>			
EPM5010 Survival analysis			■
<i>One of either EPM5011 or EPM5015 must be chosen.</i>			
EPM5011 Practical project (Full-year)			■
EPM5015 Practical project (single unit)			■
<b>Elective units</b>			
<b>Semester 1</b>			
EPM5001 Health indicators & health surveys	■		■
EPM5006 Clinical biostatistics	■		■
EPM5008 Longitudinal & correlated data	■		■
<b>Semester 2</b>			
EPM5012 Bioinformatics	■		■
EPM5013 Bayesian statistical methods	■		■
EPM5016 Advanced clinical trials – not offered in 2012	■		■

**NOTE:**

(E) = Elective

<sup>#</sup> Students must complete compulsory unit block attendance.**Timetable:** See pages 40–41**Venue:**[www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)**Further information****Course coordinator:**  
Professor Andrew ForbesE: [andrew.forbes@monash.edu](mailto:andrew.forbes@monash.edu)W: [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# Clinical Research Methods

Graduate Certificate

Graduate Diploma

Master

## Graduate Certificate in Clinical Research Methods

**Course code:** 3416**CRICOS code:** n/a**Study mode:****Local students:** Part-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

1 year @ 2 units per semester

**Full-time:** n/a**Course structure:****4 core units**

## Graduate Diploma in Clinical Research Methods

**Course code:** 0702**CRICOS code:** 13402G**Study mode:****Local students:** Part-time, Full-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

2 years @ 2 units per semester

**Full-time:**

1 year @ 4 units per semester

**Course structure:****7 core units + 1 elective unit**

## Master of Clinical Research Methods

**Course code:** 2311**CRICOS code:** 072000D**Study mode:****Local students:** Part-time, Full-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

3 years @ 2 units per semester

**Full-time:**

1.5 years @ 4 units per semester

**Course structure:****9 core units + 3 elective units**

The Graduate Certificate guides you through the many stages required for undertaking research i.e. from the development of the research question through to the publication of the study results. The emphasis is on a practical approach to clinical research.

The Graduate Diploma provides you with a detailed understanding of the units of epidemiology and biostatistics to a level that enables critical and detailed appraisal of epidemiology literature and the conduct of projects requiring epidemiological and biostatistical exercise.

The Masters program assists you to make rational evidence-based decisions in clinical practice and undertake small clinical research projects. Clinical epidemiology attempts to answer clinical questions relevant to the daily practice of medicine and other health sciences, and to improve patient care.

### What's NEW

- New course structure
- Greater number of units offered in a flexible delivery mode

**These courses assist you as a health professional with the training in the methods used to undertake sound clinical research. These courses are set up to articulate into the next level i.e. from Graduate Certificate (3416) to Graduate Diploma (0702) and then into the Masters (2311) program.**

### Entry requirement

You must have an undergraduate degree in an appropriate discipline and relevant professional experience. Your application will also be considered if you do not have a degree but have extensive relevant experience.

International Entry Requirements refer to the University International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

### Assessment

Assessment includes web-based tasks, written assignments, examinations and optional research project. These are dependent on unit specific requirements.

### Career fields

Medicine, Pharmacy, Nursing, Public Health, Allied Health Professions, Physician, Surgery, Physiotherapy, General Practice, Infection Control, Maternal & Child Health, Nutrition.

Clinical Research Methods	Graduate Certificate	Graduate Diploma	Masters
<b>Core units</b>			
<b>Semester 1 – Year 1</b>			
MPH1040 Introductory epidemiology	■	■	■
MPH1041 Introductory biostatistics	■	■	■
<b>Semester 2</b>			
MPH2013 Research methods	■	■	■
MPH2083 Ethics, good research practice & practical research skills	■	■	■
<b>Semester 1 – Year 2</b>			
MPH2037 Clinical measurement		■	■
Elective		■ (E)	■ (E)
<b>Semester 2</b>			
MPH2036 Clinical trials		■	■
MPH2039 Meta analysis & systematic reviews		■	■
<b>Semester 1 – Year 3</b>			
MPH2000 Regression methods for epidemiology			■
MPH2002 Clinical epidemiology			■
<b>Semester 2</b>			
Elective x 2			■ (E)
<b>Elective units</b>			
MPH2007 Chronic diseases: epidemiology & prevention		■	■
MPH2018 Infectious diseases: epidemiology & prevention		■	■
MPH2056 Injury epidemiology & prevention		■	■
MPH2060 Health policy & prevention in a global world		■	■
MPH2070 Advanced statistical methods for clinical research		■	■
MPH2077 Data management & computing		■	■
Minor project (7,000–8,000 words) – prerequisites apply			■

**NOTE:**

(E) = Elective

**Students must complete compulsory unit block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details.  
Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)**Further information**

**Course coordinator:**  
Associate Professor Allen Cheng

**E:** [allen.cheng@monash.edu](mailto:allen.cheng@monash.edu)

**W:** [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# Health Services Management

Graduate Certificate

Graduate Diploma

Master

## Graduate Certificate in Health Services Management

**Course code:** 2870**CRICOS code:** n/a**Study mode:****Local students:** Part-time or Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

1 year @ 2 units per semester

**Full-time:** n/a**Course structure:****2 core units + 2 elective units**

## Graduate Diploma in Health Services Management

**Course code:** 2314**CRICOS code:** 037848B**Study mode:****Local students:** Part-time, Full-time or Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

2 years @ 2 units per semester

**Full-time:**

1 year @ 4 units per semester

**Course structure:****7 core units + 1 elective unit**

## Master of Health Services Management

**Course code:** 2872**CRICOS code:** 038564F**Study mode:****Local students:** Part-time, Full-time or Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

3 years @ 2 units per semester

**Full-time:**

1.5 years @ 4 units per semester

**Course structure:****8 core units + 3 elective units**

The Graduate Certificate assists you as a health care professional to expand your knowledge and skills in the management of health services. The degree provides you with the core competencies in health services management, including leadership, human resource management and financial management of health services.

The Graduate Diploma course provides you with the skills necessary to manage clinical health care systems and processes. The degree gives you a broad framework from which to manage clinical health care with attention to human resource, financial, information, medico-legal, political, cultural, economic, ethical, industrial, technological and psychosocial issues.

The Masters program assists you as a professional currently in, or seeking to be in, middle or senior health care management positions to expand your knowledge and skills in the management of health services. This degree caters for your needs as a medical or general hospital administrator, clinician, quality assurance manager, team leader, senior nursing administrator, unit manager, case manager or general task coordinator within the health care system.

**These courses are set up to articulate into the next level i.e. from Graduate Certificate (2870) to Graduate Diploma (2314) and then into the Masters (2872) program.**

### Entry requirement

You must have an undergraduate degree in an appropriate discipline and relevant professional experience. Your application will also be considered if you do not have a degree but have extensive relevant experience.

International Entry Requirements refer to the University International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

### Assessment

Assessment includes web-based tasks, written assignments, examinations, individual or group presentations. These are dependent on unit specific requirements.

### Professional recognition

The Masters program satisfies the course requirements of the Royal Australian

College of Medical Administrator's (RACMA-Fellowship), and is accredited by the Australian College of Health Service Executives (ACHSE) for College entry and advancement purposes.

### Career fields

Medical, Nursing and Allied Health Clinician with management responsibility or interest, General Hospital Administration, Quality Assurance Management, Health Care Coordination, Case Managers.

Health Services Management	Graduate Certificate	Graduate Diploma	Masters
<b>Core units</b>			
<b>Semester 1 – Year 1</b>			
MPH2066 Clinical leadership & management	■	■	■
MPH2068 Financial issues in health care management	■	■	■
<b>Semester 2</b>			
ECX9720 Introduction to epidemiology & biostatistics	■ (E)	■*	■*
MPH2067 Principles of health care quality improvement	■ (E)	■	■
<b>Semester 1 – Year 2</b>			
MPH2069 Foundations of health policy		■	■
Elective		■ (E)	■
<b>Semester 2</b>			
MPH2065 Law for health systems		■	■
MPH2072 Reform & development of health services		■	■
<b>Semester 1 – Year 3</b>			
MPH2073 HSM case study			■
Elective			■ (E)
<b>Semester 2</b>			
MPH2073 HSM case study			■
Elective			■ (E)
<b>Elective units</b>			
MPH2085 Human factors for patient safety		■	■
MPH2086 Applying & practicing the principles of patient safety quality improvement		■	■
MPH5042 Climate change & public health		■	■
Any units offered by the School of Public Health and Preventive Medicine		■	■
ECX9700 Introduction to health economics		■	■
GHS5850 Nursing practice & management		■	■
NUR5211 Case management in health care		■	■
NUR5315 Advanced nursing practice in context		■	■
<i>Further information – online Monash University PG Handbook: <a href="http://www.monash.edu.au/pubs/handbooks">www.monash.edu.au/pubs/handbooks</a></i>			

**NOTE:**

(E) = Elective

\* ECX9720 can be taken in either first or second semester depending on elective preferred.

**Students must complete compulsory unit block attendance.****International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41**Venue:**[www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)**Further information****Course coordinator:**  
Professor Just StoelwinderE: [just.stoelwinder@monash.edu](mailto:just.stoelwinder@monash.edu)W: [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# International Health

Graduate Diploma  
Master

**These courses are offered in collaboration with the Michael Kirby Centre for Public Health and Human Rights in the Department of Epidemiology & Preventive Medicine and the Centre for International Health at the Burnet Institute for Medical Research and Public Health. Course content is largely based on actual field experiences gained by the Burnet Institute in their wide range of health development projects in more than 20 countries in Asia, the Pacific and Africa.**

These programs provide you with the skills necessary to design, implement, and evaluate the relevant programs that address the major public health priorities of communities in developing countries. Public health issues are presented in the broader context of economic and social development, stressing cultural, political, gender, and environmental influences, and the impact of armed conflict and population migration. In addition you have the opportunity to learn about human rights, ethics, law and development.

These courses are set up to articulate into the next level i.e. from Graduate Diploma (1884) to the Masters (3874) program.

## Entry requirement

You must have an undergraduate degree in an appropriate discipline and relevant professional experience. Your application will also be considered if you do not have a degree but have extensive relevant experience.

International Entry Requirements refer to the University International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

## Assessment

Assessment includes written assignments, examinations, practical exercises, student presentations and class participation. These are dependent on unit specific requirements.

## Career fields

International Public Health Policy or Management positions, Development Sector Field Worker, Health Worker Trainer, International Development Project Officer, International Health Research Officer.

## Graduate Diploma in International Health

**Course code:** 1884

**CRICOS code:** 030778A

### Study mode:

**Local students:** Part-time or Full-time + units taught in block, partial block or off-campus

**International students:** Full-time

### Study length:

**Part-time:** 2 years @ 2 units per semester

**Full-time:** 1 year @ 4 units per semester

**Course structure:** 3–4 core units + 4–5 elective units

### NOTE:

(E) = Elective

# Available in on and off-campus mode

◆ Scheduled outside standard semester

**Students must complete compulsory unit block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

## Further information

**Course coordinator:**  
Associate Professor Bebe Loff

**E:** [bebe.loff@monash.edu](mailto:bebe.loff@monash.edu)

**W:** [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

Graduate Diploma in International Health	Ethics stream	International Health stream
<b>Core units (3–4)</b>		
<b>Semester 1 – Year 1</b>		
<b>ECX9720 or MPH1040 + MPH1041</b>		
<i>(Students undertaking a research project or transferring to the MPH course MUST have core prerequisite units: MPH1040 and MPH1041)</i>		
ECX9720 Introduction to epidemiology & preventive medicine OR	■	■
MPH1040 Introductory epidemiology AND	■	■
MPH1041 Introductory biostatistics	■	■
<b>Semester 2</b>		
MPH2048 Primary health care in developing countries	■	■
MPH2049 Field methods for international health	■	■
<b>Semester 1 – Year 2</b>		
MPH2055 Health and human rights	■(E)	■(E)
Elective	■(E)	■(E)
<b>Semester 2</b>		
EPM5023 Health research & exploitation of low income countries	■(E)	■(E)
Elective	■(E)	■(E)
<b>Semester 1 – Year 3</b>		
Elective x 2	■(E)	■(E)
<b>Semester 2</b>		
Elective x 2	■(E)	■(E)
<b>Elective units (4–5)</b>		
EPM5020 Comparative moral theory	■	
EPM5021 Ethical research with at risk populations	■	
EPM5023 Health research & exploitation of low income countries	■	
EPM5024 Legal issues in research	■	
EPM5025 Human research ethics & committees: ethical review of research & research governance♦	■	
APG5733 Health care ethics	■	
MPH2047 Child public health		■
MPH2050 Health of women & children in developing countries♦		■
MPH2051 Communicable diseases control in developing countries		■
MPH2053 Public health in refugee settings♦		■
MPH2054 Nutrition in developing countries		■
MPH2055 Health and human rights		■
MPH2057 Aboriginal health♦		■
MPH2058 Effective responses to HIV programs in developing countries		■
MPH2060 Health policy & prevention in a global world		■
MPH2082 Health communication & training♦		■
MPH5087 Alcohol & other drugs in society: a national & global perspective♦		■
ECX9750 Health economics for developing countries♦		■
CRH5047 Health ecology and environmental change <i>subject to availability</i>		■

Public Health

Biostatistics

Clinical Research Methods

Health Services Management

International Health

Occupational and Environmental Health

## Master of International Health

**Course code:** 3874

**CRICOS code:** 054588J

**Study mode:**

**Local students:** Part-time or Full-time + units taught in block, partial block or off-campus

**International students:** Full-time

**Study length:**

**Part-time:** 3 years @ 2 units per semester

**Full-time:** 1.5 years @ 4 units per semester

**Course structure:** **5–6 core units + 6–7 elective units**

**NOTE:**

(E) = Elective

# Available in on and off-campus mode

◆ Scheduled outside standard semester

Core units highlighted in **bold**

**Students must complete compulsory unit block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

Master of International Health	Ethics stream	International Health stream
<b>Core units (5–6)</b>		
<b>Semester 1 – Year 1</b>		
<b>ECX9720 or MPH1040 + MPH1041</b>		
<i>(Students undertaking a research project or transferring to the MPH course MUST have core prerequisite units: MPH1040 and MPH1041)</i>		
ECX9720 Introduction to epidemiology & preventive medicine OR	■	■
MPH1040 Introductory epidemiology AND	■	■
MPH1041 Introductory biostatistics	■	■
<b>Semester 2</b>		
MPH2048 Primary health care in developing countries	■	■
MPH2049 Field methods for international health	■	■
<b>Semester 1 – Year 2</b>		
MPH2055 Health and human rights	■	■
Elective	■(E)	■(E)
<b>Semester 2</b>		
EPM5023 Health research & exploitation of low income countries	■	■
Elective	■	■
<b>Semester 1 – Year 3</b>		
Elective x 2	■(E)	■(E)
<b>Semester 2</b>		
Elective x 2	■(E)	■(E)
<b>Elective units (6–7)</b>		
EPM5020 Comparative moral theory	■	
EPM5021 Ethical research with at risk populations	■	
EPM5023 Health research & exploitation of low income countries	■	
EPM5024 Legal issues in research	■	
EPM5025 Human research ethics & committees: ethical review of research & research governance♦	■	
APG5733 Health care ethics	■	
MPH2047 Child public health		■
MPH2050 Health of women & children in developing countries♦		■
MPH2051 Communicable diseases control in developing countries		■
MPH2053 Public health in refugee settings♦		■
MPH2054 Nutrition in developing countries		■
MPH2055 Health and human rights		■
MPH2057 Aboriginal health♦		■
MPH2058 Effective responses to HIV programs in developing countries		■
MPH2060 Health policy & prevention in a global world		■
MPH2082 Health communication & training♦		■
MPH5087 Alcohol & other drugs in society: a national & global perspective♦		■
ECX9750 Health economics for developing countries♦		■
CRH5047 Health ecology and environmental change <i>subject to availability</i>		■

# Occupational and Environmental Health

Graduate Certificate

Graduate Diploma

Master

## Graduate Certificate in Occupational Health

**Course code:** 2868**CRICOS code:** n/a**Study mode:****Local students:** Part-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

1 year @ 2 units per semester

**Full-time:** n/a**Course structure:****4 core units**

## Graduate Diploma in Occupational & Environmental Health

**Course code:** 0160**CRICOS code:** 037584D**Study mode:****Local students:** Part-time, Full-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

2 years @ 2 units per semester

**Full-time:**

1 year @ 4 units per semester

**Course structure:****8 core units**

## Master of Occupational & Environmental Health

**Course code:** 2312**CRICOS code:** 028957E**Study mode:****Local students:** Part-time, Full-time, Off-Campus Learning (OCL) + compulsory block requirements**International students:**

On-campus

**Study length:****Part-time:**

3 years @ 2 units per semester

**Full-time:**

1.5 years @ 4 units per semester

**Course structure:****10 core units + 2 elective units**

The Graduate Certificate assists you as a workplace professional to expand your knowledge and skills in preventive occupational health practice; provides you with the basic knowledge in legal OHS requirements and competence in assessing and controlling workplace hazards.

The Graduate Diploma gives you as a health professional the attitudes, skills and knowledge necessary to provide preventive health services to reduce the health impact of disease and injury resulting from the workplace and community factors. This diploma caters for your special needs as a medical practitioner, nurse, allied health professional, scientist or OHS manager.

The Masters program assists you as an occupational health professional to prevent and manage occupational health problems; provides you with the skills necessary to evaluate health problems in communities thought to be associated with industrial activities. It caters for your special needs as a medical practitioner, nurse, allied health professional, scientists or OHS manager.

**These courses are set up to articulate into the next level i.e. from Graduate Certificate (2868) to Graduate Diploma (0160) and then into the Masters (2312) program.**

### Entry requirement

You must have an undergraduate degree in an appropriate discipline and relevant professional experience. Your application will also be considered if you do not have a degree but have extensive relevant experience.

International Entry Requirements refer to the University International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

### Assessment

Assessment includes web-based tasks, written assignments, examinations, practical exercises and student presentations. These are dependent on unit specific requirements.

### Professional recognition

The Graduate Diploma and Masters programs are recognized by the Australian Faculty of Occupational Medicine and the Australian College of Occupational Health Nurses. Royal Australian College of General Practitioner's CME points can be applied for annually. Other professional bodies may consider accreditation upon request.

### Career fields

Occupational Medicine, Nursing or Management positions within industry, government or independent Professional Practice.

Occupational & Environmental Health	Graduate Certificate	Graduate Diploma	Masters
<b>Core units</b>			
<b>Semester 1 – Year 1</b>			
MPH2041 Introduction to occupational health & safety	■	■	■
MPH2043 Chemical & biological hazards	■	■	■
<b>Semester 2</b>			
MPH2022 Assessment & control of workplace hazards	■	■	■
MPH2044 Ergonomic & physical hazards	■	■	■
<b>Semester 1 – Year 2</b>			
MPH2042 Psychosocial work environment		■	■
MPH1040 Introductory epidemiology		■	■
<b>Semester 2</b>			
MPH1003 Environmental influences on health		■	■
MPH2076 Safety management systems		■	■
<b>Semester 1 – Year 3</b>			
MPH1041 Introductory biostatistics <sup>#</sup>			■
Elective			■
<b>Semester 2</b>			
MPH2013 Research methods <sup>#</sup>			■
Elective			■
<b>Elective units</b>			
MPH2056 Injury epidemiology & prevention			■
MPH5042 Climate change & public health			■
CRH5047 Health, ecology & environmental change <i>subject to availability</i>			■
Minor project (7,000–8,000 words) – prerequisites and Course Coordinator's approval required. Student <b>must</b> discuss the availability of this option with the course coordinator at the commencement of their studies as the course structure may need rearranging.			■
MPH (unit code) postgraduate units			■

**NOTE:**

**Students must complete compulsory unit block attendance.**

<sup>#</sup> Available in on and off-campus mode

**Students must complete compulsory block attendance.**

**International students** – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment.

**Timetable:** See pages 40–41

**Venue:**

[www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

**Further information**

**Course coordinator:**  
Professor Malcolm Sim

**E:** malcolm.sim@monash.edu

**W:** [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# Postgraduate Teaching Staff

Leaders in their field

Contact details available on:  
[www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

## Professor M ABRAMSON

MBBS(Hons), BMedSc, PhD, FRACP, FAFPHM

**Deputy Head, DEPM, Head, Clinical Epidemiology Unit**

- A visiting specialist physician in respiratory medicine, The Alfred Hospital, Melbourne. Research programs: epidemiology of asthma and chronic obstructive pulmonary disease, including genetic and environmental risk factors such as air pollution.
- Provides epidemiological expertise to the Australian Centre for Radiofrequency Bioeffects Research.

## Mr N BETTS

**Unit Coordinator**

- A registered Safety Professional who has worked across all industry groups. He has completed the Victorian SafetyMAP Auditor Course and has been editor and publisher of the journal 'Safety in Australia'.
- With 20 years specialist consulting experience in the fields of Occupational Health & Safety, Risk & Crisis Management and Planning for Emergencies with a diverse range of clients.
- Past roles include Senior Executive with the Commonwealth Government and Telstra Australia.

## Dr B BILLAH

BSc(Hons), MSc, MAS, PhD

**Senior Lecturer**

- Research Interest: epidemiological / statistical modelling and outcome prediction, risk comparison and model selection.
- Currently a biostatistician / consultant on a number of projects in the DEPM.
- Past positions: statistician at the Carleton University in Canada, the Memorial University in Canada, the human resource of Industry Canada, the University of Dhaka in Bangladesh, and the Monash University (Econometrics and Business Statistics).

## Dr L BISHOP

BA, LLB SJD

**Unit Coordinator**

- Research interests: medical law and ethics, women and children's rights.

## Professor P CAMERON

MBBS, MD, FACEM

- Head, Prehospital, Emergency and Trauma group, DEPM.
- Academic Director of the Emergency and Trauma Centre, The Alfred Hospital.
- Head, Victorian State Trauma Registry and Associate Director of the National Trauma Research Institute.
- Main research interests: trauma epidemiology, injury prevention and management, prehospital care and health services and systems research.

## Associate Professor A CHENG

MBBS, FRACP, MPH, PhD

**Course coordinator: Clinical Research Methods courses**

- Infectious Diseases physician at The Alfred.
- Research interests include sepsis, infection control, clinical infectious control, medical care in developing countries.

## Professor F CICUTTINI

MBBS(Hons), PhD, MSc, DLSHTM, FRACP, FAFPHM

**Head, Musculoskeletal Unit, DEPM  
Course Coordinator: Master of Public Health**

- Head Rheumatology Unit, Alfred Hospital.
- Research includes using Magnetic Resonance Imaging to understand factors that affect joint cartilage in healthy and diseased states.

## Mr B CRAMMOND

BA(Hons), LLB(Hons), LLM

- Research Interests: How theories of justice (including human rights) can be used to improve health outcomes in all settings.
- Current research: How law can be used to combat obesity in Australia.
- Currently undertaking PhD on Justice and Health Inequalities.

## Dr S EVANS

BN, GDipClinEpi, PhD

**Lecturer and Senior Research Fellow**

- Associate Director, NHMRC CRE in Patient Safety.
- Principle interest is in the epidemiology of medical error.
- Past roles include: Department of Health in South Australia establishing a state-wide incident reporting system. Data custodian for Prostate Cancer Clinical Registry.

## Dr D FISH

MBBS, FAFOEM, FAFPHM

**Senior Lecturer**

- Fellow of the Faculties of Occupational and Environmental Medicine and Public Health.
- Extensive experience in industry, government and private practice.
- Past President of the Australian Faculty of Occupational & Environmental Medicine.
- Interests: assessment of occupational and environmental injuries and conditions.

## Professor A FORBES

BSc(Hons), MSc, PhD

**Head, Biostatistics Unit**

- Gained international experience at Ciba-Geigy Pharmaceuticals, USA in methodology, design and analyses of clinical trials, and consultation with clinicians.
- Chief investigator on a number of major research projects in the Department, pursues methodological research in applied statistics.
- Provides statistical consulting within the Faculty of Medicine, its affiliated institutes, and for external bodies.

## Associate Professor B GABBE

MAppSc, PhD

**Lecturer and Senior Research Fellow**

- A physiotherapist who has gained extensive experience in both the private and public sectors.
- Currently a NHMRC Population Health Senior Research Fellow in the Department's Prehospital and Emergency Trauma Unit.
- Principal research interests: trauma and sports injury epidemiology, the prevention of these injuries and the long term outcomes following injury.

**Dr D GLASS**

MA, MSc, PhD, DipOccHyg

**Lecturer and Senior Research Fellow**

- Extensive experience as an occupational hygienist in industry, a researcher and lecturer in occupational and environmental health.
- Research studies: Health Watch, Australian Gulf War veteran's study,
- Membership: Australian Institute of Occupational Hygiene (AIOH), the British Occupational Hygiene Society (BOHS), and the Australasian Epidemiological Association (AEA), ACGIH TLV committee which sets occupational exposure standards used around the world and is part of the Cancer Council of Australia's Occupational Cancer Working Group.

**Dr R HALL**

BSc(Hons), MBBS, DipRACOG, MPH, FRACMA, FAFPHM, MASM

**Senior Research Fellow / Lecturer  
Course Coordinator: Doctor of  
Public Health**

- 30 years public health experience, at local, State, national and international levels. Four years in the Northern Territory in Aboriginal health, including at the Urapuntja Health Service at Utopia Station.
- Chair of the Technical Advisory Committee on Immunization and Vaccine Preventable Diseases for the Western Pacific Region of the WHO.
- Past appointments: Director of Communicable Disease Control in South Australia; Director of Public Health in Victoria.

**Dr F HANNA**

MBBS, BSc(Hons), PhD

**Senior Lecturer,  
NHMRC Research Fellow**

- Research interest: The epidemiology of Non-Communicable diseases and their modifiable risk factors such as obesity and physical inactivity and burden of musculoskeletal disease and comorbidity of other chronic conditions.

**Professor J IBRAHIM**

MBBS, GradCert HE, PhD, FAFPHM, FRACP

- Consultant Physician, Victorian Institute Forensic Medicine.
- Associate Director, NHMRC Centre of Research Excellence in Patient Safety; Adjunct Professor, Australian Centre for Evidence Based Aged Care at La Trobe University.
- Consultant physician in geriatric medicine with research interests in quality of clinical care, performance measurement and patient safety.
- Past appointments: Health Services Research Unit, DEPM Monash University.

**Dr S JEFFCOTT**

BSc(Hons), PhD (CompSci)

**Senior Research Fellow**

- Research interests: Human factors and patient safety how industrial practice from a variety of high-hazard domains helps to inform risk and safety management health care.
- Areas of interest: Resilience engineering and understanding how people build safety and help in error recovery and prevention of patient harm.
- Current projects: Investigating team dynamics in trauma issues surrounding mislabelling and miscollection of pretransfusion blood samples in hospital.

**Dr C JOYCE**

BA(Hons) MPsyCh PhD

**Senior Research Fellow**

- Research interests: the Australian health workforce, policy-relevant health services research.
- Current projects include Practice Nurse Work Survey (NHMRC Postdoctoral Fellowship); and the Australian longitudinal survey of doctors (the MABEL study).

**Mrs E KENNEDY**

BA, LLB(Hons), LLM(Melb), GradDipHealth &amp; Medical Law

**Senior Lecturer**

- Currently Corporate Counsel of The Royal Women's Hospital.
- Past appointments: Corporate Counsel at the Royal Children's Hospital, Southern Health, and corporate solicitor to the Australian Medical Association of (Victoria).
- Specialises in health and medical law and deals on a daily basis with a wide range of issues facing health professionals and hospitals.

**Associate Professor K LEDER**

MBBS(Hons), FRACP, MPH, PhD

**Head, Infectious Disease  
Epidemiology Unit  
Senior Lecturer /  
Senior Research Fellow**

- Visiting specialist physician at the Royal Melbourne Hospital.
- Areas of interest: traveller's health, health issues in immigrants and refugees, and waterborne infections.

**Associate Professor B LOFF**

BA, LLB, MA (Medical Law &amp; Ethics), PhD

**Head, Human Rights & Bioethics Unit  
Course Coordinator: International  
Research Bioethics courses and  
Master of International Health  
Senior Lecturer /  
Senior Research Fellow**

- Director, Michael Kirby Centre for Public Health and Human Rights.
- Specific areas of interest lie at the intersections of human rights and public health.

**Dr E MACFARLANE**

BSc, MPH, PhD

**Research Fellow**

- Research interest: cancer, respiratory disease, injury and occupational exposure assessment. In the past involved in a number of research projects including studies of workers in the Aluminium and Lead industries, military veterans, agricultural workers, pest-controllers and occupational disease surveillance programs.

**Dr D MAGLIANO**

B.App.Sc.(Hons), MPH, PhD

**Lecturer and Senior Research Fellow**

- Experienced researcher in epidemiology and public health.
- Holds a part time position at Monash University and works as a senior epidemiologist at the Baker IDI Heart and Diabetes Institute.
- Current research interests include diabetes, obesity and cardiovascular disease.

**Professor A MAHAL**

BA (Economics); MA (Economics); PhD  
**Finkel Chair of Global Health and Professor**

- Past appointments: A/Prof of International Health Economics at the Harvard School of Public Health; Principal Economist National Council for Applied Economic Research, New Delhi.
- Country health policy experience: Bangladesh, Botswana, Dominican Republic, Guatemala, India, Jamaica, Malaysia, Nigeria, Sri Lanka and Ukraine.
- Current research interests: evaluation of health financing interventions, economic impacts of ill health, ageing and its economic implications in developing countries, health systems.

**Ms K MAKAROUNAS-KIRCHMANN**

BEd, MEd  
**Lecturer**

- Director, KMC Health Care
- Current research interests in economic evaluations and pharmaceutical markets

**Dr J MCINNES**

BSc(Hons), MPH

- Extensive background in health sciences education
- Areas of research interest: heatwave epidemiology, impacts and adaptation
- Research projects: knowledge and practices regarding minimisation of harm to older people from heatwaves; planning and response to heatwaves in a Residential Aged Care setting; indoor temperatures of Residential Aged Care facilities.

**Dr A NICHOL**

MBBCh, BAO, DipMan, FRCARCSI  
**Senior Lecturer**

- Established background in intensive care medicine and research.
- Specific area of interest includes acute lung injury.

**Professor B OLDENBURG**

BSc(Hons), MPsych, PhD  
**Chair, International Public Health Unit**

- Regional Director of the Asia-Pacific Academic Consortium of Public Health (APACPH).
- Research Director of the Australian Institute of Health Policy Studies (AIHPS).
- Research areas of interest: social / behavioural sciences and public health, with the major focus being on health policy, global health and the primary and secondary prevention of non-communicable diseases and associated social and behavioural risk factors across the life-course.

**Associate Professor C REID**

BA, DipEd, MSc, CertHealthEcon, PhD

- Associate Director, NHMRC Centre of Clinical Research Excellence in Therapeutics, DEPM. Head, Clinical Informatics & Data Management Unit
- Past positions: Director, 2nd Australian National Blood Pressure Study; Program Director, Australian Society of Cardiothoracic Surgeons Victorian database. Head, Cardiovascular Disease Prevention Unit, Baker Heart Research Institute.
- His work has led to the development of a series of clinical tools for general practitioners to assist in the uptake of evidence-based management of both primary and secondary prevention of cardiovascular disease.

**Professor M SIM**

BMedSc, MBBS, MSc, GDipOccHyg, MSc, PhD, FAFOEM, FAFPHM, FFOM  
**Course Coordinator: Occupational & Environmental Health courses**

- Director, Monash Centre for Occupational & Environmental Health (MonCOEH).
- An occupational physician and epidemiologist who leads a team of about 25 research and teaching staff in MonCOEH.
- Research interests: human health effects of occupational and environmental chemical and other exposures, occupational disease surveillance, injury, veterans' health and exposure assessment.
- Prominent role with the Australasian Faculty of Occupational and Environmental Medicine and awarded a College Medal for Outstanding Service by the Royal Australasian College of Physicians.

**Professor J STOELWINDER**

MBBS, MD, FRACP, FRACMA, FACHSE, FAFPHM  
**Chair, Health Services Management, Course Coordinator**

- Member: Board of Directors, Medibank Private Limited.
- Past appointments: Include CEO of the Southern Health Care Network for over 16 years. Held appointments in the Business School and Medical Faculty at Monash University, University of Pennsylvania and Boston University.

**Dr R STUCKEY**

BAppSc, GradDipErgonomics, PhD, MPH  
**Lecturer**

- Experienced Occupational Health Practitioner who has worked across industry as a consultant and trainer for more than 30 years.
- An ergonomist and OHS adviser with qualifications in occupational therapy, ergonomics and public health.

**Dr A WLUKA**

MBBS, FRACP, PhD, Grad  
 CertHealthEcon  
**Senior Research Fellow**

- Consultant Rheumatologist Alfred Hospital
- Research interests: Osteoarthritis and prediction of disease.

**Associate Professor R WOLFE**

BSc, PhD  
**Biostatistician**

- Provides statistical support for a wide range of epidemiological and clinical research studies.
- Undertakes statistical methodological research.

**Dr D ZION**

BA (Hons), MA, PhD (Bioethics)  
**Senior Lecturer / Senior Research Fellow**

- Coordinator for ethics in the MBBS, and teaches ethics in the IMS and in Health Sciences.
- Edits Monash Bioethics Review with Justin Oakley.
- Published widely on research ethics and HIV/AIDS, and is currently researching the ethics of the care of asylum seekers in Australia.

## Burnet Institute, Centre for International Health

### Dr B COGHLAN

MBBS, MPH, TM, MAppEpid

#### Lecturer

- Medical epidemiologist and public health physician trainee.
- Worked for a variety of organisations (Australian Red Cross, MSF, IRC and WHO) providing assistance to refugee and displaced populations in Sudan, Democratic Republic of Congo, Myanmar, Thailand, and Sri Lanka.
- He has taught epidemiology, communicable disease control and refugee health courses in Uganda, PNG, and Cambodia.
- His most recent work has been on emerging and re-emerging infectious disease particularly avian influenza.

### Dr M CREATI

MBBS, MPH, FRACP

#### Lecturer

- International Child Health Specialist & Paediatrician.
- Previously worked in Indonesia, in project management and implementation, as well as teaching in the Paediatric Department of the University of Gadjah Mada.
- Major areas of interest: implementation of MCH services and adolescent health.

### Ms A FISCHER

MPH (Monash)

#### Lecturer

- Andrea is a harm reduction and development adviser, providing technical assistance on non-injecting drug use and HIV & AIDS to the centre's activities in Papua New Guinea and management inputs to a variety of projects. Her professional experience includes policy development, management of bilateral health projects and work with local NGOs in Hyderabad, India.

### Mr C HAGARTY

MPH, Monash University; B Pod (Hons), La Trobe University

#### Lecturer

- Public health practitioner whose experience has focused strongly on community participation initiatives which encourage communities to explore and identify their public health needs, and to work together to meet these.
- Worked with communities in Samoa, the Solomon Islands, India, Nepal, Pakistan, Maldives and has facilitated capacity building to governments in China, Fiji and at the South Asia Regional level,

on issues as diverse as prevention of mosquito-borne and non-communicable diseases, disability prevention and care, cold chain management for EPI programs, clinical infection control and, of course, prevention of sexually transmissible diseases, including HIV, to vulnerable groups.

### Dr P HIGGS

PhD Monash University, MA Victoria University, BSw UNSW

#### Lecturer

- Peter has a background in community development and has worked with marginalised populations in Melbourne, Sydney, Vietnam, Indonesia and China for 20 years.
- Currently working on an international collaboration investigating protective as well as risk factors in blood borne virus transmission for long term injecting drug users with the National Centre in HIV Epidemiology and Clinical Research at the University of NSW.

### Dr W HOLMES

MBBS, MSc (Community Health in Developing Countries)

#### Lecturer

- Lead, Technical Advisor, Public Health Physician & International Women and Children's Health specialist at the CIH 18 years experience in this field.
- Current work includes project management, teaching, research, project identification, design and evaluation consultancies and preparation of teaching materials.
- Worked in Aboriginal health in Australia, in Zimbabwe, China, Laos, India and Sri Lanka.
- Major areas of interest: participatory research methods, teaching, HIV infection in children and infant nutrition.

### Ms E KENNEDY

MBBS (Hons), MPH, Monash University

#### Lecturer

- Currently working in the area of women's and children's health, with a focus on adolescent sexual and reproductive health and increasing investment in family planning in the Pacific.
- Research interest in sexual and reproductive health.

### Dr C MORGAN

MBBS, DTCH, FRACP

#### Lecturer

- International Child Health Specialist & Paediatrician.
- Has interests in primary health care delivery systems, international child and adolescent health, promotion of new born and young infant health, prevention of maternal death and disability and health worker education and training.

- Substantial years of field experience from life and work in Nepal, China (Tibet) and Papua New Guinea.

### Ms C MURPHY

BEdSt (Monash), MPH&TM (James Cook), MHScPrac (La Trobe)

#### Lecturer

- Public health practitioner with experience in managing community based HIV programs, organisational development, capacity building, education and training, monitoring and evaluation, and strategic planning.
- Field experiences in Myanmar, Cambodia, Vietnam, Sri Lanka and various Pacific countries.
- Her work focuses on providing technical support to HIV programs in Myanmar and the Pacific region.

### Dr T STEWART

MBBS, MAppEpi, FAFPHM, FACTM

#### Lecturer

- Medical Epidemiologist & Public Health Practitioner.
- Interests include childhood health and vector borne diseases emerging infectious diseases.
- Extensive work experience throughout the Pacific, Indonesia, Nepal and Vietnam.

### Professor M TOOLE

BMedSc, MBBS, DTM&H  
Head, Centre for International Health  
Course Coordinator: Graduate Diploma in International Health

- Medical epidemiologist & Public Health Physician.
- Extensive experience working in refugee health programs in Thailand, Somalia, Sudan and Eritrea. He spent 8 years at the U.S. Centres for Disease Control and Prevention, Atlanta, GA, where he coordinated CDC's technical assistance to refugee and displaced populations, including field work in Ethiopia, Kenya, Malawi, Kurdistan, Sudan, Pakistan, Russia, Armenia, Bosnia-Herzegovina, Somalia, Rwanda and Zaire.
- Recent work has focused on Laos, PNG, Tibet and Myanmar.

### Ms L RENKIN

BA, MPH, Diploma Professional Counselling

#### Lecturer

- International HIV & Development Specialist with the Centre for International Health.
- Field experience in Eritrea, Ethiopia, Sth Africa, China, Indonesia and PNG.
- Expertise in managing community based HIV programs, capacity building and strategic planning.

## Units 2012

Further information on  
[www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

### APG4772

#### Health care ethics

**Lecturer:** Dr R Sparrow

**Points:** 6

**Mode of study:** 2 contact hours per week

**Semester:** 1

**Campus:** Clayton

**Synopsis:** This unit aims to develop students' critical and analytical understanding of key ethical issues in patient care. The unit focuses initially on four main ethical principles, embodying the concepts of autonomy, privacy, beneficence, and justice. These principles are used to analyse and discuss a variety of broad ethical issues which arise in patient care, such as the allocation of health care resources, the justifiability of paternalism, breaches of patient confidentiality, in vitro fertilisation, research involving humans, and euthanasia. There is also some discussion of the role of health professionals, in relation to conscientious refusals to treat patients, and issues in family care giving.

#### Assessment:

Essay (3000 words) (60%)

Take-home exam (2000 words) (40%)

### CRH1047

#### Health, ecology and environmental change *subject to availability*

**Lecturer:** Dr R Jones

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1

**Synopsis:** Relationships between human health and anthropogenic physical environmental change are explored, with emphasis on global and regional environmental change and how this manifests at a local level in both individuals and populations, within rural and metropolitan contexts. The role of health professionals and policy makers is explored with students reflecting on their own personal viewpoints and practice as professional global citizens. Local and regional issues relevant to professional practice are placed in the larger global context. An ecological perspective of health is applied to a range of issues using multidisciplinary approaches including epidemiological and social models of health.

#### Assessment:

Case study analysis (20%)

Reflective essay (40%)

Online discussion activities (40%)

### DPH6001

#### Advanced epidemiology

**Lecturer:** Dr R Hall

**Points:** 6

**Mode of study:** 2 contact hours per week

**Semester:** 1

**Campus:** Alfred

**Synopsis:** Advanced understanding of epidemiology methods used to study chronic diseases. Overview of descriptive & analytical epidemiology of diseases of major public health importance in Australia. Particular methodological issues include assessing causality, bias, confounding, effect modification, exposure assessment, outcome assessment, prevention paradigms & whether epidemiology has reached its limits.

#### Assessment:

Two written assignments (50% each)

### DPH6002

#### Statistical methods for public health

**Lecturer:** Associate Professor R Wolfe

**Points:** 6

**Mode of study:** 2 x 2 day block + Off-Campus Learning

**Semester:** 1

**Campus:** Alfred

**Synopsis:** Stata statistical software, confounding & effect modification, logistic regression, conditional logistic regression for matched case-control studies, linear regression, diagnostics to assess model fit, model estimation methods, Poisson regression for rates and relative risk.

#### Assessment:

Two assignments (50% each)

### DPH6003

#### Advanced research methods in public health

**Lecturer:** Professor M Abramson

**Points:** 6

**Mode of study:** 2 contact hours per week

**Semester:** 2

**Campus:** Alfred

**Synopsis:** Quantitative skills necessary to undertake & complete doctoral level projects. Major types of epidemiological study designs, defining research questions & hypotheses. Assessment of reliability, validity of questionnaires, selecting appropriate instruments for public health research. Steps in preparing a grant application for competitively awarded funding, alternative sampling strategies for subject election, data analysis strategies & bias control. Ethical issues in public health research & role of Ethics Committees.

#### Assessment:

Written appraisal (20%)

Oral presentation (25%)

Written protocol (25%)

Draft questionnaire (10%)

Manuscript (20%)

**DPH6004****Health leadership & management****Lecturer:** Professor J Stoelwinder**Points:** 6**Mode of study:** Off-Campus Learning  
(with 15 contact hours over 2 days)**Semester:** 1**Campus:** Alfred

**Synopsis:** Leadership & management principles as related to public health organisations. Key management & organisational theories, interface of theory & practice, human resource management, sources of power & influence. Techniques for managing organisational change, building effective & adaptive health organisations, elements of strategic planning, difference between leadership & management. Leadership skills, team building, conflict management, network development & management, strategic alliances, application of leadership & management principles to solve complex health organisational problems.

**Assessment:**

Web-based tasks (30%)

Written assignments (70%)

**DPH6005****Public Health Practice****Lecturers:**

Professor M Abramson / Dr R Hall

**Points:** 12**Mode of study:** Off-Campus Learning**Semester:** 2**Prerequisites:** DPH6001 + DPH6002

**Synopsis:** Supervised practical placement in University Departments and Centres, hospitals, affiliated research institutes, community health services, non-government organisations and the Department of Human Services giving students the opportunity to interact with practicing public health professionals. Students will be co-supervised by a staff member of the Faculty of Medicine.

**Assessment:**

Written report (100%)

**ECX9120****Introduction to microeconomic theory and policy****Lecturer:** Mrs J Tennant**Points:** 6**Mode of study:** 12 hours per week +  
Off-Campus Learning**Semester:** 1

**Synopsis:** The theory of consumer choice and its relationship to demand, production, costs and supply. Pricing and output decisions of firms in various market structures, including perfect competition, monopoly, monopolistic competition and oligopoly. Efficiency, from the regional perspective, of resource allocation and the problems of externalities, public goods and imperfect information. Contemporary microeconomic policy issues from the regional perspective.

**Assessment:**

Within semester assessment (40%)

Examination (3 hours) (60%)

**ECX9700****Introduction to health economics****Lecturer:** Ms J Watts**Points:** 6**Mode of study:** 12 hours per week +  
Off-Campus Learning**Semester:** 1

**Synopsis:** Understanding of microeconomic approach to health sector resource allocation. Use of economic concepts in 'health market' analysis, including how firms and consumers make decisions. Efficiency in the allocation of health care resources, priority setting and equity-efficiency trade-offs. Analytical frameworks for assessment of Australian health care system & health policy generally from an economic perspective.

**Assessment:**

Within semester assessment (50%)

Examination (3 hrs) (50%)

**ECX9710****Pharmaceutical economics****Lecturers:** Ms J Watts & Ms J Spinks**Points:** 6**Mode of study:** 12 hours per week +  
Off-Campus Learning**Semester:** 2

**Synopsis:** The economics of the pharmaceutical industry including the market for pharmaceuticals & its regulation internationally & in Australia. Principles of economic evaluation of the costs & outcomes of pharmaceutical products, & provides a guide to best practice with particular emphasis on clinical trials & protocol design.

**Assessment:**

Within semester assessment (70%)

Examination (2 hrs) (30%)

**ECX9720****Introduction to epidemiology & biostatistics****Lecturer:** Professor F Cicuttini**Points:** 6**Mode of study:** 12 hours per week +  
Off-Campus Learning**Semester:** 1 or 2

**Synopsis:** Differences between descriptive & analytical epidemiology, strengths & weaknesses of different epidemiological study design & basic design features of an intervention study. Introduction to basic concepts & methods of biostatistics including confidence intervals, p-values & sample size, statistical tests for comparing groups, regression models & survival analysis. Design & evaluation of clinical trials.

**Assessment:**

Assignments (50%)

Examination (50%)

**ECX9730****Economic evaluation in health care****Lecturers:** Ms J Watts & Ms J Namazzi**Points:** 6**Mode of study:** 12 hours per week +  
Off-Campus Learning**Semester:** 2

**Synopsis:** Techniques of microeconomic appraisal in the evaluation of health care programs. Conceptual & methodological issues, practical conduct, & review of such studies & their use in priority setting within the health care sector. Application of decision rules for economic efficiency in health program evaluation & their influence on policy decisions.

**Assessment:**

Within semester assessment (70%)

Examination (2 hrs) (30%)

**ECX9741****Applied health economics and health policy****Lecturer:** Ms J Watts**Points:** 6**Mode of study:** 12 hours per week + Off-Campus Learning**Semester:** Summer**Prerequisite:** ECX9700

**Synopsis:** Synthesises contemporary issues in health policy, building on fundamental economic concepts, established in ECX9700. Core concepts of efficiency, equity & the application of contemporary health care issues are developed through three themes: the role of government in the health care system including regulation in organization and delivery of services; incentives for equity and efficiency; and the use of economic principles to analyse & develop alternative health policy.

**Assessment:**

Within semester assessment (50%)

Examination (3 hours) (50%)

**ECX9750****Health economics for developing countries****Lecturer:** Dr Paula Lorgelly**Points:** 6**Mode of study:** 5 day on-campus block**Semester:** 1**Campus:** Alfred

**Synopsis:** The unit provides an overview of the particular problems confronted by health care systems in developing countries. Economic principles are used to review and develop policy options for financing of the health sector and approaches to priority setting that foster improved expenditure allocation. Practical aspects of individual health care project appraisal in developing countries are also addressed.

**Assessment:**

Within semester assessment (50%)

Examination (3 hours) (50%)

**EPM5001****Health indicators & health surveys****Lecturer:** Professor J Simpson**Points:** 6**Mode of study:** 12 hours per week + Off-Campus Learning**Semester:** 1**Corequisite:** MPH1040

*For Biostatistics course enrolled students only unless special permission granted.*

**Synopsis:** Introduction to a variety of health-related data collection sources, calculation of population fertility, mortality & morbidity rates, health service utilisation measures, disease registration & reporting. Use of direct & indirect age standardisation, life expectancy calculations, valid comparisons & health differentials. Development, design & delivery of health questionnaires. Use of focus groups, standard instruments for health surveys, coding, validity, reliability of measures & modes of data collection. Efficient sampling strategies, data interpretation & analysis including stratification, clustering & weighting.

**Assessment:**

Written assignments (100%)

**EPM5002****Mathematical background for biostatistics****Lecturer:** Professor G Glonek**Points:** 6**Mode of study:** 12 hours per week + Off-Campus Learning**Semester:** 1 or 2

*For Biostatistics course enrolled students only unless special permission granted.*

**Synopsis:** Core topics in algebra & analysis, including polynomial & simultaneous equations, graphs, concept of limits, continuity & series approximations, including Taylor series expansions. Calculus is used to describe techniques of integration & differentiation of vector expressions. Study of probability, concepts of probability laws, random variables, expectation & distributions. Essential topics in matrix algebra relevant to biostatistical methods. Essential numerical methods, including Newton-Raphson method for solution of simultaneous equations & concepts of numerical integration.

**Assessment:**

Written assignments (100%)

**EPM5003****Principles of statistical inference****Lecturer:** Dr A Kirby**Points:** 6**Mode of study:** 12 hours per week + Off-Campus Learning**Semester:** 1 or 2**Prerequisites:** EPM5002, EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Core concepts of statistical inference, estimators, confidence intervals, type 1 & 2 errors & p-values. Practical interpretation of biostatistical contexts & difference between statistical & practical significance. Classical estimation theory, bias & efficiency. Likelihood function, likelihood based methodology, maximum likelihood estimation & inference based on likelihood ratio, Wald & score test procedures. Bayesian approach to statistical inference Vs classical frequentist approach. Nonparametric procedures, exact inference & resampling based methodology.

**Assessment:**

Written assignments

Practical exercises

**EPM5004****Linear models****Lecturers:** Professors A Forbes & J Carlin**Points:** 6**Mode of study:** 12 hours per week + Off-Campus Learning**Semester:** 2**Prerequisites:** MPH1040, EPM5002, EPM5003 & EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Exploration of linear models emphasising underlying theoretical & computational issues, practical interpretation & communication of results. Case studies explore methods for group comparisons of means (t-tests & analysis of variance) to adjust confounding, to assess effect modification/interaction, & associated inference procedures. Multiple regression strategies, model selection issues, model checking & diagnostics. Nonparametric regression techniques, random effects, variance component models & broader class of regression models.

**Assessment:**

Written assignments

Practical exercises

## EPM5005

### Data management & statistical computing

**Lecturer:** Professor C D'Este

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1 or 2

*For Biostatistics course enrolled students only unless special permission granted.*

**Synopsis:** Complexity of data management & statistical computing methods. Issues in storing, retrieving information & assessing data repository's quality & limitations. Examples from real data sets give practical skills in data management, assessment of data quality & handling and linking of large volumes of data.

#### Assessment:

Written assignments (100%)

## EPM5006

### Clinical biostatistics

**Lecturer:** Professor A Dobson

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1

**Prerequisites:** MPH1040, EPM5002 & EPM5014

**Corequisite:** EPM5003

*For Biostatistics course enrolled students only.*

**Synopsis:** Practical applications of statistical methods in clinical & diagnostic settings. Methods for assessment of clinical agreement, statistical properties of diagnostic tests & their interpretation, statistical & ethical issues involved in screening tests & fundamentals of modelling for clinical prediction. In-depth analysis of issues in systematic reviews of medical research studies, including selection & appraisal of studies, levels of evidence, meta-analytic methods for estimating effect sizes using fixed & random effect models, assessing heterogeneity & publication bias.

#### Assessment:

Written assignments (100%)

## EPM5007

### Design of experiments & clinical trials

**Lecturer:** Professor P Ryan

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 2

**Prerequisites:** EPM5002 & MPH1040

*For Biostatistics course enrolled students only.*

**Synopsis:** Randomised comparisons as a major tool used in medical research & basis of providing evidence for improving clinical practice. Problems based on clinical questions explore need & value of different experimental designs. Randomisation issues, clinical study design & analysis interpretation. Efficiency issues such as sample size & power.

#### Assessment:

Written assignments (100%)

## EPM5008

### Longitudinal & correlated data analysis

**Lecturers:**

Professors A Forbes & J Carlin

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004, EPM5009 & EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Statistical models for longitudinal & correlated data in medical research. Hierarchical data structures, simple numerical & analytical demonstrations of inadequacy of standard statistical methods. Normal-theory model & statistical procedures i.e. mixed linear models are explored using SAS or Stata statistical software packages. Extension to non-normal outcomes emphasising clinical research question. Case studies contrast generalised estimating equations & generalised linear mixed models. Limitations of traditional repeated measures analysis of variance & non-exchangeable models.

#### Assessment:

Written assignments  
Practical exercises

## EPM5009

### Categorical data & generalised linear models

**Lecturer:** Professor A Dobson

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5014

**Corequisite:** EPM5004

*For Biostatistics course enrolled students only.*

**Synopsis:** Biostatistical applications of generalised linear models with emphasis on underlying theoretical issues & practical interpretation of results fitting these models. Relevant methods for 2x2 & 2xk tables extended into logistic regression for a binary outcome as a special case of generalised linear modelling. Measures of association & modelling techniques for ordinal outcomes. Methods for analysing count data. Techniques for dealing with matched data, e.g. from case control studies.

#### Assessment:

Written assignments  
Practical exercises

## EPM5010

### Survival analysis

**Lecturer:** Professor G Heller

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004 & EPM5014.

*For Biostatistics course enrolled students only.*

**Synopsis:** Biostatistical applications of survival analysis with emphasis on underlying theoretical & computational issues, practical interpretation & communication of results. Case studies explore various methods for handling survival data. Kaplan-Meier curve definition & its extension, survival prospects using logrank test & confidence intervals for relative risks, graphical displays & assessing underlying assumptions. Mantel-Haenszel method's connection to survival analysis. Cox proportional hazards model for handling continuous covariates. Various extensions of this model, including time-dependent covariates, multiple outcomes & censored linear regression model.

#### Assessment:

Written assignments (100%)

## EPM5011

### Biostatistics work placement (double unit)

**Lecturer:** Professor A Forbes

**Points:** 12

**Mode of study:** 24 hours per week + Off-Campus Learning

**Semester:** Full year or 1 or 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004, EPM5005, EPM5009 & EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Exploration of a real-life biostatistical problem in an academic health research environment, industry or government. Supervision is by an experienced biostatistic Monash University staff member. One or more relevant research project(s) can be selected. Meetings are required with associated health research personnel & supervisor. Under supervisor's general guidance, responsibility is assumed for statistical aspects of project(s) & for conducting an analysis of appropriate complexity. Results are interpreted & presented in written format.

**Assessment:**

Written report (100%)

## EPM5012

### Bioinformatics

**Lecturer:** Professor G Wood

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004 & EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** The unit begins with a brief review of elementary molecular biology: DNA, RNA, the central dogma, meiosis, mitosis and genes. Some fundamental mathematical tools for statistical analysis are also reviewed. The course then covers sequence alignment, database searching, Mendelian genetics and techniques for discovering connections between genes and disease: association, linkage and variance components studies.

**Assessment:**

Written assignments (100%)

## EPM5013

### Bayesian statistical methods

**Lecturer:** Professor L Gurrin

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004, EPM5009 & EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Introduction to the concepts and methods of modern Bayesian statistical methods with particular emphasis on practical applications in biostatistics. Comparison of Bayesian concepts involving prior distributions with classical approaches to statistical analysis, particularly likelihood based methods. Applications to fitting hierarchical models to complex data structures via simulation from posterior distributions using Markov chain Monte Carlo techniques (MCMC) with the WinBUGS software package.

**Assessment:**

Written assignments (80%)

Practical exercises (20%)

## EPM5014

### Probability and distribution theory

**Lecturer:** Associate Professor R Wolfe

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1 or 2

**Prerequisite:** EPM5002

*For Biostatistics course enrolled students only*

**Synopsis:** The study of basic probability and calculus-based methods underpinning probability distributions, and parameter estimation.

**Assessment:**

Written assignments (100%)

## EPM5015

### Biostatistical practical project (single unit)

**Lecturer:** Professor A Forbes

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 1 or 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014

*For Biostatistics course enrolled students only.*

**Synopsis:** Exploration of a real-life biostatistical problem in an academic health research environment or industry. Supervision is by an experienced biostatistics Monash University staff member. One relevant research project can be selected or will be allocated. Meetings are required with associated health research personnel & supervisor. Under the supervisor's general guidance, responsibility is assumed for statistical aspects of the project & for conducting an analysis of appropriate complexity. Results are interpreted & presented in written format.

**Assessment:**

Written report (100%)

## EPM5016

### Advanced clinical trials

**Lecturer:** Professor V GebSKI

**Points:** 6

**Mode of study:** 12 hours per week + Off-Campus Learning

**Semester:** 2

**Prerequisites:** MPH1040, EPM5002, EPM5003, EPM5004, EPM5007 & EPM5014

*Note: unit expected to be offered in 2013*

**Synopsis:** This unit introduces advanced methods used in clinical research & clinical trials in particular. Group sequential methods are introduced as a mechanism for allowing investigators to perform interim analyses while the data is accumulating without compromising the scientific & statistical validity of the study. Regulatory guidelines for conduct & reporting of clinical trials are presented & discussed in detail. More advanced designs than the simple parallel-group randomised trial to assess superiority are presented, namely crossover, equivalence & non-inferiority trials. Finally an introduction to problems of defining & using surrogate endpoints as substitutes for direct clinical outcomes will be provided, including definitions, statistical properties & examples.

**Assessment:**

Written assignments (100%)

**EPM5020****Comparative moral theory****Lecturer:** Dr G Petterson**Points:** 6**Mode of study:** Off-Campus Learning**Semester:** 1**Campus:** Alfred

**Synopsis:** Principles of ethical theory as a foundation for study in bioethics. Different models of ethical theory and reasoning discussed, various cultural and religious traditions explored. The approach provides a comparative cultural background within which students are able to contextualise bioethical debates. Issues in meta-ethics considered prior to discussion of three main traditional perspectives in normative ethics – Kantianism, Utilitarianism, and Virtue Ethics.

**Assessment:**

Take home examination (40%)

Written assignments (40%)

Contribution to online discussion (20%)

**EPM5021****Ethical research with at risk populations****Lecturer:** Dr L Bishop**Points:** 6**Mode of study:** Off-Campus Learning**Semester:** 1**Campus:** Alfred

**Synopsis:** Overview of human rights considerations pertinent to research in situations in which the autonomy of potential participants is gravely diminished, for example: refugee populations, people living in poverty, conditions of civil rights violations, war or internal conflict. How should research with vulnerable populations be undertaken, if at all?

**Assessment:**

Written assignment (60%)

Contribution to online discussion (40%)

**EPM5023****Health research and exploitation of low income countries****Lecturer:** Dr L Bishop**Points:** 6**Mode of study:** Off-Campus Learning**Semester:** 2**Campus:** Alfred

**Synopsis:** Consideration of the key bioethical issues in research including international collaborative research, development of the rules guiding research, essential components of ethical review processes, the geopolitical purposes served by international health research. Also considered are specific concerns such as the 10.90 disequilibrium, the relationship between parties involved in research (host and sponsor countries, multilateral organisations and pharmaceutical companies), trial design, community and individual participation, informed consent, placebo controlled trials, justice and access to benefits during and subsequent to the trial, and capacity building

**Assessment:**

Written assignment (60%)

Contribution to online discussion (40%)

**EPM5024****Legal issues in research****Lecturers:**

Mr B Crammond / Dr L Bishop

**Points:** 6**Mode of study:** Off-Campus Learning**Semester:** 2**Campus:** Alfred

**Synopsis:** Review of domestic and international legal approaches to health and research including examination of substantive issues such as consent, confidentiality, discrimination, privacy, contract, intellectual property and human rights. Also considered are different international codes, guidelines and harmonisation of standards.

**Assessment:**

Written assignment (60%)

Contribution to online discussion (40%)

**EPM5025****Human research ethics committees: ethical review of research and research governance****Lecturers:** Dr D Zion / Mr B Crammond**Points:** 6**Mode of study:** Off-Campus Learning**Semester:** Summer**Campus:** Alfred

**Synopsis:** Students will participate as observers on ethical review boards of large teaching hospitals or research institutes in Melbourne for the purpose of equipping them to lead and participate in ethical review processes. They will have the opportunity to interview members of the various committees and administrative staff in order to become familiar with the administrative needs of such committees and the problems that can arise.

**Assessment:**

Written assignment (60%)

Contribution to online discussion (40%)

**HSC5002****Health promotion: A determinants approach****Lecturers:** Dr E Bruce / Ms S Hawkey**Points:** 6**Mode of study:** Off-Campus Learning + compulsory 2 day block**Semester:** 1**Campus:** Alfred

**Synopsis:** This unit provides opportunities to examine the impact of multiple factors and conditions that contribute to the health of Australia's population, known collectively as the social determinants of health. Students will examine the intended and unintended effects of health promotion and its capacity to influence the determinants of health particularly on reducing disparities and inequities experienced by identifiable groups or categories of people within populations.

**Assessment:**

Review of literature (30%)

Case study (20%)

Development of program plan (50%)

## HSC5022

### Evaluating public health programs

**Lecturer:** Associate Professor B Smith

**Points:** 6

**Mode of study:** Off-Campus Learning

**Semester:** 2

**Campus:** Alfred

**Synopsis:** This unit will equip students with skills to evaluate disease prevention and health promotion programs and policies using a range of methodologies. An emphasis will be placed on the evaluation challenges posed by the complexities of public health action and the contexts in which it is carried out, with case studies used to foster an understanding of these issues.

#### Assessment:

Comparison and analysis of evaluation design options (30%)

Development of impact measurement instrument (30%)

Evaluation plan (40%)

## HSC5032

### Health Literacy

**Lecturer:** Prof H Keleher

**Points:** 6

**Mode of study:** Off-Campus Learning + compulsory study days

**Semester:** 2

**Campus:** Alfred

**Prerequisite:** HSC5002

**Synopsis:** Health literacy is both a public health issue and a social determinant of health. Health literacy involves a range of skills and knowledge about health and health care and includes the sourcing and interpretation of health information, seeking of appropriate care and managing health decisions. One in five Australians do not have adequate literacy skills to participate effectively in everyday life, while health literacy is fundamental for good health and for people to successfully manage their own health. Further about half the Australian population has the minimum level of competence needed to cope with everyday life and work. There is an enormous need for health services to become more responsive to health literacy issues and for the development of approaches to address low health literacy. In this unit students will examine health literacy concepts, measurement research and strategies, and develop practical approaches for the advancement of health communication to address low literacy.

#### Assessment:

TBC

## MPH1003

### Environmental influences on health

**Lecturer:** Dr E Macfarlane

**Points:** 6

**Mode of study:**

Off-Campus Learning + 3 day block

**Semester:** 2

**Campus:** Alfred

**Prerequisite:** MPH1040

**Synopsis:** Environmental influences on health including physical, chemical and biological hazards as well as principles of assessment, management and control of environmental health risks.

#### Assessment:

Written assignment (70%)

Online discussion (10%)

Online exam (20%)

## MPH1040

### Introductory epidemiology

**Lecturers:**

Dr D Magliano / Professor F Cicuttini

**Points:** 6

**Mode of study:** 2 compulsory contact hours per week on-campus or Off-Campus Learning + compulsory 3 day block

**Semester:** 1

**Campus:** Alfred

**Corequisite:** MPH1041

*To be taken concurrently with MPH1041. Together they are prerequisites for clinical epidemiology elective units.*

**Synopsis:** Contents: rates, sources of data, descriptive & analytical epidemiology, epidemiological study designs, critical appraisal of literature, screening, prevention, exposure assessment, outbreak investigation, confounding & bias.

#### Assessment:

Assignments (25%)

Examination (75%)

## MPH1041

### Introductory biostatistics

**Lecturer:** Dr B Billah

**Points:** 6

**Mode of study:**

2 contact hours per week on-campus or

Off-Campus Learning + 3 day block

**Semester:** 1

**Campus:** Alfred

**Corequisite:** MPH1040

**Recommended:** Students are required to have access to a calculator equipped with elementary scientific functions (e.g. Casio FX-100) and a statistical package for data analysis e.g. SPSS, PRISM, STATA (help will be available for SPSS only).

*Note: Students don't have provision to borrow SPSS CD from Monash; they may have to lease/buy it from SPSS.*

**Synopsis:** This unit is taken concurrently with MPH1040. Together they are prerequisites for clinical epidemiology elective units. Contents includes: classification of medical data; summarising data using simple statistical methods and graphical presentation; sampling distribution, quantifying uncertainty in the sample results and statistical distributions; comparing two/more groups/methods using hypothesis test or p-value and 95% confidence interval; assessing the association between outcome and exposure using chi-squared test; risk comparison (RR & OR); prediction of an event or identifying risk factors for an event of interest where the event is measured in continuous scale; prediction of an event or identifying risk factors for an event of interest where the event is recorded in binary scale (yes/no); sample size calculation.

#### Assessment:

Written assignments (100%)

## MPH2000

### Regression methods for epidemiology

**Lecturer:** Associate Professor R Wolfe

**Points:** 6

**Mode of study:**

Off-Campus Learning + 2 x 2 day blocks

**Semester:** 1

**Campus:** Alfred

**Prerequisites:** Credit grade average in MPH1040 & MPH1041

**Synopsis:** Stata statistical software, confounding & effect modification, logistic regression, conditional logistic regression for matched case-control studies, linear regression, diagnostics to assess model fit, model estimation methods, Poisson regression for rates and relative risk.

#### Assessment:

Two assignments each (50%)

## MPH2002

### Clinical epidemiology

**Lecturer:** Professor M Abramson

**Points:** 6

**Mode of study:** Off-Campus Learning + 2 day block

**Semester:** 1

**Campus:** Alfred

**Prerequisites:** MPH1040 & MPH1041

**Synopsis:** Applications of epidemiological techniques to clinical research including discussions of evidence, therapy, causation, variation & agreement, the normal range, diagnostic test selection, validation & interpretation, natural history & prognosis, bias, generalisability, systematic reviews & clinical guidelines.

#### Assessment:

Written / online weekly assessment tasks (50%)

Final assignment (50%)

## MPH2007

### Chronic disease: epidemiology & prevention

**Lecturer:** Dr R Hall

**Points:** 6

**Mode of study:** Off-Campus Learning + 2 day block

**Semester:** 1

**Campus:** Alfred

**Prerequisites:** MPH1040 & MPH1041

**Synopsis:** Epidemiology and control of chronic diseases. Overview of important chronic diseases in Australia in 2011, and strategies for their prevention and control. Measurement of disease and burden of disease; concept of risk factors and risk factors for important chronic diseases; the effect of social and economic factors on the epidemiology of chronic diseases; impact of chronic diseases on society and the economy; smoking, nutrition and physical activity as risk factors for important chronic diseases; cardiovascular diseases and their prevention; oral diseases and their prevention; injuries and their prevention; respiratory diseases and their prevention; cancers and their prevention; screening as a public health tool; health promotion as a public health tool; use of evidence in public health programmes to prevent chronic diseases

#### Assessment:

Oral presentation (50%)

Online participation (50%)

## MPH2013

### Research methods

**Lecturer:** Dr A Wluka

**Points:** 6

**Mode of study:**

One of the following options:

*Option 1:* 2 contact hours per week;

*Option 2:* Off-Campus Learning (OCL)

+ compulsory 2 day block.

*Note: these options are not interchangeable.*

**Semester:** 2

**Campus:** Alfred

**Prerequisites:** MPH1040 + MPH1041

**NB:** Students completing MPH2013 cannot undertake MPH2049.

**Synopsis:** This unit provides an introduction to the research methods used in observational studies and is designed to help the student develop the practical skills required in the design and assessment of a research project. It covers issues in protocol design, including study type selection, introduction to questionnaire design, sampling methods, and ethics approval. This introduces the student to planning data management and statistical analysis and developing a study budget. An introduction to the role of qualitative research is also covered.

#### Assessment:

Assignments (40%)

Examination (50%)

Participation (10%)

## MPH2018

### Infectious disease epidemiology

**Lecturers:**

Associate Professor K Leder / Dr R Hall

**Points:** 6

**Mode of study:** Off-Campus Learning + 3 day block

**Semester:** 2

**Campus:** Alfred

**Prerequisite:** MPH1040

**Synopsis:** Importance of transmission, source, host and organism factors in infectious disease epidemiology. Outbreak investigation, surveillance of infectious diseases, prevention/control strategies, mathematical modelling of infectious diseases and of impact of immunity. Includes discussion of infection control, vaccines, exotic and emerging diseases.

#### Assessment:

Online participation (60%)

Class presentation (40%)

## MPH2022

### Assessment and control of workplace hazards

**Lecturer:** Dr D Glass

**Points:** 6

**Mode of study:** Off-Campus Learning + 3 day block

**Semester:** 2

**Campus:** Alfred

**Synopsis:** How to recognise, evaluate & control hazards in workplaces arising from substances, sound, radiation & micro-organisms. Principles & practice of occupational hygiene including simple instruments used, ventilation, personal protective equipment and workplace substance laws. Hygienic standards, their various forms & notations. Difficulties of assessing prior exposures for medico-legal & epidemiological purposes.

#### Assessment:

Multiple choice tests (50%)

Web-based tasks (20%)

Workbook (5%)

Written assignment (25%)

## MPH2036

### Clinical trials

**Lecturer:** Professor C Reid

**Points:** 6

**Mode of study:** Off-Campus Learning + 2 day block

**Semester:** 2

**Campus:** Alfred

**Prerequisites / corequisites:**

MPH1040, MPH1041, MPH2013

*This unit assumes a basic understanding of the principles of informed consent.*

**Synopsis:** This unit will equip students with the skills for the design, implementation and analysis of randomised controlled clinical trials. It will enable student to formulate research question, select and recruit study subjects, compare groups, conduct randomisation, interpret findings, manage outcomes and consider issues of ethics, budget and quality assurance.

#### Assessment:

Written assignments (80%)

Online assessment (20%)

**MPH2037****Measurement in clinical research****Lecturer:** Dr A Nicol**Points:** 6**Mode of study:** Off-Campus Learning + 2 day block**Semester:** 1**Campus:** Alfred**Prerequisites:** MPH1040 & MPH1041

**Synopsis:** Overview of measures & issues in clinical research; sampling & inference; selecting items, reducing items & creating aggregate scores; inter-rater & intra-rater reliability & interval consistency of responses; assessing the validity of measures; responsiveness of measures to significant clinical change; strategies for gathering data; wording of questions & design of response categories; data entry & management & handling of missing data.

**Assessment:**

Written online assessment (50%)

Final assignment (50%)

**MPH2039****Meta analysis and systematic reviews****Lecturer:** Professor R Buchbinder**Points:** 6**Mode of study:** Off-Campus Learning + 2 block days**Semester:** 2**Campus:** Alfred**Prerequisites:** MPH1040 & MPH1041

**Synopsis:** Critical appraisal of literature reviews, problem formulation & protocol development, intra-rater agreement for assessment of relevance, validity assessments, data collection forms, variation between study findings, combining findings of independent studies, inferences based upon overviews & statistics of meta analysis.

**Assessment:**

Group presentation of a systematic review (50%)

Individual critical appraisal of a published literature review (50%)

**MPH2041****Introduction to occupational health & safety****Lecturer:** Dr R Stuckey**Points:** 6**Mode of study:** Off-Campus Learning + 3 day block**Semester:** 1**Campus:** Alfred

**Synopsis:** The effects & human cost of occupational disease & injury, occupational health & safety law, workers' compensation, negligence, occupational rehabilitation, historical achievements & challenges, international & national organisations.

**Assessment:**

Web-based tasks (10%)

Assignments (50%)

Examination (40%)

**MPH2042****Psychosocial work environment****Lecturer:** Dr D Goddard**Points:** 6**Mode of study:** Off-Campus Learning + 3 day block**Semester:** 1**Campus:** Alfred

**Synopsis:** Psycho social effects of work on individuals from a preventive viewpoint. Mental illness & its effect on employment, disability discrimination, equal employment opportunity legislation, workplace health promotion & shift work.

**Assessment:**

Web-based tasks

Assignments

Examinations

**MPH2043****Chemical and biological hazards****Lecturer:** Dr D Glass**Points:** 6**Mode of study:** Off-Campus Learning (with 20 contact hours over 4 days)**Semester:** 1**Campus:** Alfred

**Synopsis:** Prevention of human disease resulting from workplace exposures to chemical & biological hazards. Toxicological principles, health effects of major groups of chemical substances, as well as biological hazards such as blood borne diseases & legionnaires disease.

**Assessment:**

Multiple choice tests &amp; short answer test (each 10%)

Web-based tasks (20%)

Short essay (15%)

Written assignment (25%)

Presentation (20%)

**MPH2044****Ergonomic & physical hazards****Lecturer:** Dr R Stuckey**Points:** 6**Mode of study:** Off-Campus Learning + 3 day block**Semester:** 2**Campus:** Alfred

**Synopsis:** Introduction to principles & practice of ergonomics. Occupational hygiene as applied to physical hazards: noise, radiation, thermal environments & pressure effects.

**Assessment:**

Multiple choice tests (15%)

Written assignments (45%)

Examinations (30%)

Web based tasks (10%)

**MPH2047****Child public health****Lecturer:** Mr M Farrell**Points:** 6**Mode of study:** 5 day intensive block**Semester:** 2**Campus:** Centre for Community Child Health, Flemington

**Synopsis:** Aspects & influences on child & adolescent public health from a local & international perspective. History & development of public health as it relates to children, mental health, public health policies, injury prevention, disability, indigenous & cross-cultural issues, the impact of poverty & disadvantage, oral health, health screening & surveillance, genetic testing, nutrition, health promotion, international health, families, and healthy lifestyles.

**Assessment:**

Written assignments (70%)

Oral presentation (30%)

## MPH2048

### Primary health care in developing countries

**Lecturer:** Dr C Morgan / Ms E Kennedy

**Points:** 6

**Mode of study:**

One of the following options:

*Semester 1 option:*

6 x 4 weekday contact hours +

1 x 7 weekend contact hours

*Semester 2 option:*

5 day block

**Campus:** Alfred

**Prerequisites / corequisites:**

Basic computer proficiency

**Synopsis:** This subject will provide an overview of the history, principles and practice of primary health care in developing countries, as well as the interaction between primary healthcare and current trends in global health and international development.

**Assessment:**

Written task (3,000–4,000 words) (60%)

Group presentation (20%)

Individual reflection (1,000 words)

on group work (20%)

## MPH2049

### Field methods for international health planning & evaluation

**Lecturers:** Dr B Coghlin & Mr C Hagarty

**Points:** 6

**Mode of study:** 5 day block

**Campus:** Alfred

**Prerequisites / corequisites:**

MPH1040 & MPH1041 OR ECX9720;

and basic computer proficiency

*Note: Students completing MPH2049 cannot undertake MPH2013.*

**Synopsis:** Rapid appraisal of community health needs; public health surveillance; population surveys; survey sampling methods; measuring mortality; measurement of the burden of disease; program monitoring; quality assurance in primary healthcare; using health data for decision making; participatory evaluation of health programs; and applied health research.

This unit aims to develop students' competence in the basic quantitative and qualitative tools used to manage community-based primary health care programs, including needs assessments, planning and evaluation, health information collection, and operations research in a developing country setting.

**Assessment:**

Written assignments (1 x 40% + 1 x 60%)

## MPH2050

### Health of women and children in developing countries

**Lecturer:** TBC

**Points:** 6

**Mode of study:** 6 day block

**Semester:** 1

**Campus:** Alfred

**Prerequisite:** Basic computer proficiency

**Synopsis:** Overview of women & children's health in resource poor settings with a life-cycle approach. Includes current health status of women, children's & policy trends; analysis of determinants of women & children's health in poor communities; introduction of concepts in planning, implementation, management & evaluation of effective strategies; gender analysis; reproductive health; maternal & neonatal health; nutrition; children's rights & health ageing.

**Assessment:**

Assignments (40%)

Group presentation (20%)

Short answer examination (40%)

## MPH2051

### Communicable diseases control in developing countries

**Lecturer:** Dr M Creati

**Points:** 6

**Mode of study:** 8 x 4 weekday contact hours

**Semester:** 2

**Campus:** Alfred

**Prerequisite:** Basic computer proficiency

**Synopsis:** The unit will cover the epidemiology and burden of disease of existing and emerging communicable diseases of public health importance in developing countries. The unit emphasises a comprehensive evidence based approach to communicable disease control, which includes elements of health promotion, disease prevention and case management, which may be delivered through both government and non-government sectors. Guest speakers will provide real examples of practical and effective control interventions, based on their own experience in developing countries.

**Assessment:**

Exercise (15%)

Essay (45%)

Short answer examination (40%)

## MPH2053

### Public health in refugee settings developing countries

**Lecturer:** Professor M Toole

**Points:** 6

**Mode of study:** 7 day intensive block

**Semester:** 1

**Campus:** Alfred

**Prerequisites:** MPH1040 & MPH1041 & basic computer proficiency

**Synopsis:** Public health consequences of complex humanitarian emergencies involving armed conflict, population displacement, food scarcity & an outline of critical public health interventions in these settings.

**Assessment:**

Short answer examination (50%)

Written assignment (50%)

## MPH2054

### Nutrition in developing countries

**Lecturer:** Professor M Toole

**Points:** 6

**Mode of study:** 3 x 2 weekday contact hours + 3 x 7 weekend contact hours

**Semester:** 2

**Campus:** Alfred

**Prerequisite:** Basic computer proficiency

**Synopsis:** Food security & nutritional issues in developing countries, emphasising causal factors, field programs addressing famine & under nutrition.

**Assessment:**

Written assignment (50%)

Short answer examination (50%)

## MPH2055

### Health & human rights

**Lecturers:**

Mr B Crammond / Dr L Bishop

**Points:** 6

**Mode of study:** 2 contact hours per week or Off-Campus Learning

**Semester:** 1

**Campus:** Alfred

**Synopsis:** Interrelationship between public health, human rights & ethics. Includes discussion of women's health, HIV/AIDS, access to pharmaceuticals, refugee health, complex humanitarian crises. A particular focus is the way human rights can be used in health practice.

**Assessment:**

**On-campus:**

Written assignments mid-semester (30%)

Written assignments end-semester (70%)

**Off-campus:**

Written assignments (60%)

Contribution to online discussion forum (40%)

**MPH2056****Injury epidemiology & prevention****Lecturer:** Associate Professor B Gabbe**Points:** 6**Mode of study:** 5 day intensive block**Semester:** 2**Campus:** Alfred

**Synopsis:** Epidemiology of injury in Australia & Victoria. Data & research that underpins current knowledge of major causes, risk factors & vulnerable population groups. Current initiatives (both government & non-government) to address major injury problems in Victoria, including a creative & critical focus on effective countermeasures, prevention programs, strategies & evaluation.

**Assessment:**

Written assignment

Oral presentation

**MPH2057****Aboriginal health****Lecturers:** Ms C Van Gemet**Points:** 6**Mode of study:** 5 day intensive block**Semester:** 2**Campus:** Alfred**Prerequisite:** Basic computer proficiency

**Synopsis:** An overview of Aboriginal health, especially in Victoria. The study of Aboriginal health in Australia often focuses on the health of communities in the remote northern and western areas of the continent. Provide an understanding of the historical, socio-economic and cultural contexts of ill-health in the Aboriginal community; more about learning appropriate questions to ask and appropriate ways of asking them, than trying to only provide solutions. Will also introduce participants to the major health issues and provide practical information about the delivery of appropriate health care and the role of Aboriginal community controlled health services. Participants will be provided with sources of further information and expertise about Victorian Aboriginal community health with a reflection on that in other parts of Australia

**Assessment:**

Case study (15%)

Written assignment

(3,500–4,000 words) (85%)

**MPH2058****Effective responses to HIV in developing countries****Lecturer:** Ms L Renkin**Points:** 6**Mode of study:** 7 day intensive block**Semester:** 2**Campus:** Burnet**Prerequisite:** Basic computer proficiency

**Synopsis:** The course is designed to enhance participants' understanding of HIV, the impact of HIV epidemics throughout the developing world, and the evidence underpinning appropriate programmatic responses to HIV. The course presents analysis of the risk and vulnerability of individuals and communities to HIV infection, explores the latest evidence and policy developments relevant to prevention, care/support and treatment approaches, and aims to expand participants' skills in developing appropriate evidence-based responses to HIV. Recent shifts in global policy are presented along with a number of case studies drawn from 'real-world' programs to facilitate students' learning.

**Assessment:**

Written assignment (4,000 words) (60%)

Short answer examination (40%)

**MPH2060****Health policy and prevention in a global world****Lecturers:** Professor B Oldenburg /

Dr F Hanna

**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 2**Campus:** Alfred

**Synopsis:** This unit will examine policy and systemic approaches to disease prevention and health promotion at the level of individuals and populations in a global world. The major global causes of disease burden, their risk factors and more upstream influences will be examined with respect to policy and system-level approaches. Students will reflect on the complex interplay among evidence, policy and practice in relation to prevention. Case studies from both developed and resource poor countries will be considered. This unit is one of a group of policy units that also include MPH2069 and MPH2072.

**Assessment:**

Written assignments (70%)

Online participation (30%)

**MPH2065****Law for health systems****Lecturer:** Mrs E Kennedy**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 2**Campus:** Alfred

**Synopsis:** Review of legal principles related to the delivery of health care by examining common law principles and statutes. Examination of the Australian legal system, including the Coroner's court, with an emphasis on Victorian and Commonwealth cases and statutes. Focus on key areas of medical and health law such as negligence consent, privacy of health information, clinical research, abortion, euthanasia, mental health, infectious diseases, health complaints and law for health facilities such as hospitals.

**Assessment:**

Web-based tasks (50%)

Written assignments (50%)

**MPH2066****Clinical leadership & management****Lecturer:** Professor J Stoelwinder**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 1**Campus:** Alfred

**Synopsis:** Reviews key management, organisational theory & its application to health care settings. The role of the manager, leadership skills, staffing issues including performance management, managing change, structuring organisations for patient care, developing strategy, and designing business plans.

**Assessment:**

Web-based tasks (50%)

Written assignments (50%)

**MPH2067****Principles of health care quality improvement****Lecturers:** Dr S Evans**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 2**Campus:** Alfred

**Synopsis:** Historical, political & social factors impacting on quality measurement in health care. Relationship of industrial & health care quality monitoring. Epidemiological & statistical quality measurement principles. Strengths & limitations of current monitoring techniques & different sources of health care quality data. Principles of clinical indicator programs, adverse event monitoring, satisfaction surveys & benchmarking. Relationship between evidence based medicine, clinical practice guidelines & quality improvement. Design, implementation & evaluation of quality improvement programs in clinical settings.

**Assessment:**

Web-based tasks (50%)

Written assignments (50%)

**MPH2068****Financial issues in health care management****Lecturers:** Ms K Makarounas-Kirchmann / Mr R Cornick**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 1**Campus:** Alfred

**Synopsis:** An introduction to basic accounting principles for non-accountants. Financial issues confronting clinical managers including the understanding & interpretation of common accounting reports, budgeting & financial analysis. An introduction to basic economic theory relevant to clinicians & clinical managers, including funding health care services & economic evaluations that guide health care policy & decision making.

**Assessment:**

Web-based tasks (50%)

Written assignments (25%)

Multiple choice examination (25%)

**MPH2069****Foundations of health policy****Lecturers:**

Dr C Joyce / Professor B Oldenburg

**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 1**Campus:** Alfred

**NB:** Students completing MPH2069 cannot have previously been undertaken MPH2031

**Synopsis:** Delivery of health services is underpinned by a framework of health policies and other health system elements. Health professional leaders and managers, and those who aspire to these roles, need to know about these policies and about the process of policy making so that they can understand why a policy is what it is, and how to engage in the policy making process.

This unit involves a structured review of policy making processes, via WebCT based modules, readings and online tasks, supplemented by workshops with senior health care policy practitioners. It considers key challenges and major issues confronting governments and health systems around the world, and how policy can help address these.

**Assessment:**

Web-based tasks (50%)

Written assignments (50%)

**MPH2070****Advanced statistical methods for clinical research****Lecturer:** Associate Professor R Wolfe**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 3 block days**Semester:** 2**Campus:** Alfred

**Prerequisites:** MPH2000 + credit grade in MPH1040 and MPH1041 & familiarity with Stata statistical software.

**Synopsis:** Statistical methods for clinical trials data, including design considerations, sequential analysis, bioequivalence and analysis of repeated measures data. Methods for measuring agreement between raters or instruments including kappa statistics and intraclass correlation coefficients. Analysis of survival time data with Cox proportional hazards regression models. Methods for process control. Combination of lectures and data analysis sessions on laptop computers using Stata statistical software.

**Assessment:**

Two written assignments (50% each)

**MPH2072****Reform & development of health services****Lecturers:**

Professor A Mahal

**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 block days**Semester:** 2**Campus:** Alfred**Recommended:** MPH2069

**Synopsis:** This unit will examine reform and development in health services from an international, national and local perspective. The focus of the unit will explore the implementation of health policy reform and the multitude of issues, drivers, demands, complexities and consequent impacts related to reform. Areas of concentration include international and national governing entities, the Australian health care system, developed and developing country health systems, roles of institutions (hospitals), and various applications of reform movements / models in care delivery.

**Assessment:**

Web-based tasks (50%)

Written assignments (50%)

**MPH2073****Case study in health services management****Lecturers:** Professor J Stoelwinder / Professor F Cicutini**Points:** 12**Mode of study:** 2 supervision hours & 10 research hours per week

**Semester:** 1 + 2 (Special consideration may be given to complete the unit in one semester – apply to the Unit Coordinator) Off-Campus Learning

**Synopsis:** Consolidates theoretical & practical skills acquired in the Master of Health Services Management or Master of Public Health by exploring in detail a complex problem in the student's workplace or health care setting. Placement in a health service area or exploring an overseas placement, both require the Unit Coordinator's approval. The case study is not intended to be original research.

**Assessment:**

Written report (100%)

**MH2076****Safety management systems****Lecturer:** Mr N Betts**Points:** 6**Mode of study:**

Off-Campus Learning + 3 block days

**Semester:** 2**Campus:** Alfred**Prerequisite:** MPH2041

**Synopsis:** The growth of Occupational Health and Safety Management Systems within the working environment are explored, concepts and practices are studied. Focus upon the conduct of internal and external audits and accreditation is examined. Subjects include accident / incident causation theories and models, incident investigation techniques, reporting and statistical methods, safety systems and fire safety and emergency procedures. Incident causation and accident types, including slips, trips and falls within the workplace are also examined.

**Assessment:**

Online discussions

Assignments

**MPH2077****Data management & computing****Lecturer:** Ms L Shiel / Professor C Reid**Points:** 6**Mode of study:** 2 contact hours per week**Semester:** 1**Campus:** Alfred

**Synopsis:** This unit is aimed at research professionals who manage clinical trial data. Students will be given guidance to enable them to develop standards of best practice, be able to assess new technologies to ensure data quality & efficient data processing. Students will be given guidance on accepted practices for clinical data management, & for data capture system design & development. Practical skills will be developed through the completion of data management tasks for a hypothetical study, with a database developed using Microsoft Access.

**Assessment:**

Assignments (70%)

Written examination (30%)

**MPH2082****Health communications & training****Lecturer:** Ms C Murphy**Points:** 6**Mode of study:** 6 day intensive block**Semester:** Summer**Campus:** Alfred**Prerequisite:** Basic computer proficiency

**NB:** Students completing MPH2082 cannot have previously been undertaken MPH1016.

**Synopsis:** Overview of communication & training skills needed for community health work in developing countries. Training strategies for community health work including adult learning principles, theory & application, design & program establishment options, facilitation skills & participatory methods. Communication strategies for health promotion. Communication skills for effective health management, report writing & cross-cultural communication. Practical approach to design & implementation of training programs & health promotion strategies.

**Assessment:**

Assignment (75%)

Group work (25%)

**MPH2083****Ethics, good research practice & practical research skills****Lecturer:** Dr L Bishop**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 day block**Semester:** 2**Campus:** Alfred**Prerequisite / corequisite:** MPH2013

**Synopsis:** This unit will provide students with the practical knowledge required to plan and undertake a clinical research project with close attention to the highest standards of ethics and Good Research Practice. Students will also gain detailed knowledge in planning, and organizing their knowledge using methods of clinical research in a written and oral format.

**Assessment:**

Assignment (70%)

Online discussion (30%)

**MPH2085****Human factors for patient safety****Lecturer:** Dr S Jeffcott**Points:** 6**Mode of study:** Off-Campus Learning, on-line + 2 day block**Semester:** 1**Campus:** Alfred

**Synopsis:** This unit provides students with skills and knowledge in the new and exciting field of "human factors" and, in particular, how this relates to health and what opportunities exist for patient safety efforts.

**Assessment:**

Critical appraisal (2,000 words) (35%)

Reflective assignment (2,000 words) (35%)

Class participation (30%)

**MPH2086****Applying & practicing the principles of patient safety & quality improvement****Lecturer:** Professor J Ibrahim**Points:** 6**Mode of study:** Off-Campus Learning + on-line + 2 day block**Semester:** 2**Campus:** Alfred**Prerequisite:** Background in health care preferred

**Synopsis:** This unit provides students with skills and knowledge to apply tools, techniques, programs or strategies to improve the quality of care and patient safety.

**Assessment:**

Letter to the editor (500 words) (20%)

Reflective assignment (2,000 words) (30%)

Class participation (50%)

**MPH5042****Climate change and public health**

**Lecturers:** Professor J Ibrahim /  
Ms J McInnes

**Points:** 6

**Mode of study:** Off-Campus Learning  
+ on-line + 2 block days

**Semester:** 1

**Campus:** Alfred

**Synopsis:** This unit will examine the health impacts of climate change, and the relevance of this to the principles and practices of public health.

Informed by an understanding of the fundamental role of climate stability for sustained population health, and of evidence for anthropogenic global warming, the focus of the unit will be on direct and indirect mechanisms through which climate change could impact on health, including extreme weather events, changing patterns of vector-borne disease, water-borne infections, food quality and availability, air quality, and social disruption.

There will be an emphasis on evidence for past and predicted health effects, health burden magnitude and distribution, and the complex interplay between population and environmental factors that influence vulnerability.

Students will apply this knowledge to critically appraise adaptation and mitigation initiatives from a public health perspective, and will be expected to engage with current climate change issues and communicate their ideas clearly and effectively.

**Assessment:** TBC

**MPH5087****Alcohol and other drugs in society: a national and global perspective**

**Lecturer:** Dr P Higgs

**Points:** 6

**Mode of study:** 6 day intensive block

**Semester:** 1

**Campus:** Alfred

**Prerequisites:**

MPH1040 & MPH1041 or ECX9720

**Synopsis:** This unit is designed as a contemporary analysis of drug use in modern societies and will enhance participants' knowledge about the risk and vulnerability of individuals and communities to licit and illicit drug use.

**Assessment:**

Formative feedback on small group work and reflective practice and presentation skills.

Letter to editor or critique of a peer reviewed article (30%)

Abstract (400 words) (10%)

Written essay (3,600 words) (60%)

**Further information**

**W:** [www.monash.edu.au/pubs/handbooks/](http://www.monash.edu.au/pubs/handbooks/)

# Timetable 2012, Semester 1

27 February – 25 May (Vacation: 6-13 April)

Timetable subject to change – Check timetable changes on [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

Unit	Title	Coordinator	Mode	Date/Time	Stream
MPH1040-DAY	Introductory Epidemiology (lecture)	Dianna Magliano	Weekly – DAY	Thurs 9–10am	CE
MPH1040-TUTE	Introductory Epidemiology (tutorial)		Weekly – TUTE	Thurs 10–11am	CE
MPH1041-DAY	Introductory Biostatistics (lecture)	Baki Billah	Weekly – DAY	Thurs 11.30am–1pm	CE
MPH1041-TUTE	Introductory Biostatistics (tutorial)		Weekly – TUTE	Thurs 1–2pm	CE
MPH1040-DE	Introductory Epidemiology (DE – Block days)	Dianna Magliano	OCL + COMPULSORY 2 block days – DE	27 Feb + 2 April	CE
MPH1041-DE	Introductory Biostatistics (DE – Block days)	Baki Billah	OCL + COMPULSORY 3 block days – DE	29 Feb + 3–4 April	CE
MPH2000	Regression Methods for Epidemiology	Rory Wolfe	OCL + 2 x 2 day block	15–16 March + 10–11 May	CE
MPH2002	Clinical Epidemiology	Michael Abramson	OCL + 2 day block	30 March + 25 May	CE
MPH2007	Chronic Diseases: Epidemiology & Prevention	Robert Hall	OCL + 2 day block	8–9 March	CE
MPH2037	Clinical Measurement	Alistair Nichol	OCL + 2 day block	5–7 March	CE
MPH2041	Introduction to Occupational Health & Safety	Ruth Stuckey	OCL + 3 day block	2–4 May	OEH
MPH2042	Psychosocial Work Environment	David Goddard	OCL + 3 day block	16–18 April	OEH
MPH2043	Chemical & Biological Hazards	Deborah Glass	OCL + 4 day block	26–29 March	OEH
MPH2048	Primary Health Care in Dev. Countries <sup>■</sup>	Chris Morgan	6x4 w/day hrs 1x7 w/end hrs	28 Feb – 3 April	IH
MPH2049	Field Methods for IH Planning & Evaluation <sup>■</sup>	Tony Stewart	5 day block	16–20 April	IH
MPH2050	Health of Women & Children in Developing Countries	TBC	6 day block	5–13 June	IH
MPH2053	Public Health in Refugee Settings <sup>■◆</sup>	M Creati	7 day block	7–15 Feb	IH
MPH2055	Health & Human Rights	Bradley Crammond / Liz Bishop	Weekly	Wed 10am–12noon	IH
MPH2066	Clinical Leadership & Mgmt	Just Stoelwinder	OCL + 2 block days	27 Feb + 30 April	HSM
MPH2068	Financial Issues in Health Care Management	Kelly Makarounas-Kirchmann / R Cornick	OCL + 2 block days	28 Feb + 17 April	HSM
MPH2069	Foundations of Health Policy	Catherine Joyce / Brian Oldenburg	OCL + 2 block days	29 Feb + 9 May	HSM
MPH2073	Case Study**	Just Stoelwinder / Flavia Cicuttini	Off Campus		HSM
MPH2077	Data Management & Computing	Louise Shiel/ Chris Reid	OCL + 2 block days	TBC	CE
MPH2085	Human Factors for Patient Safety	Shelley Jeffcott	OCL + 2 block days	13 March + 15 May	HSM
MPH5087	Alcohol & other drugs in Society: a national and global perspective	A Fischer	6 day block	2–9 May	IH

Note: Quotas exist for International Health units so timely enrolment is encouraged. Some block teaching periods fall outside the standard semester dates.

Other Units	Coordinator	Mode	Date/Time	Stream
APG5733	Health Care Ethics	Joachim Asscher	Weekly	IRB
CRH5047	Health, Ecology & environmental change	Rebecca Jones	OCL	MPH
DPH6001	Advanced Epidemiology	Robert Hall	OCL + 2 day block	as per MPH2007
DPH6002	Statistical Methods for Public Health	Rory Wolfe	OCL + 2 x 2 day block	as per MPH2000
DPH6004	Health Leadership & Management	Just Stoelwinder	OCL + 2 block days	as per MPH2066
DPH6005	Public Health Practice	Robert Hall	OCL	DPH
ECX9700	Introduction to Health Economics	Jenny Watts	OCL	MPH
ECX9120	Intro to Microeconomic Theory & Policy	Jenny Watts	OCL	MPH
ECX9720	Introduction to Epidemiology & Biostatistics	Flavia Cicuttini	OCL	G
ECX9750	Health Economics for Developing Countries	Paula Lorgelly	one week block	14–18 May
EPM5001	Health Indicators & Health Surveys	Julie Simpson	OCL	For Biostatistics course students only
EPM5002	Mathematical Background for Biostatistics	K Dear	OCL	For Biostatistics course students only
EPM5003	Principles of Statistical Inference	A Kirby	OCL	For Biostatistics course students only
EPM5005	Data Management & Statistical Computing	C D'Este	OCL	For Biostatistics course students only
EPM5006	Clinical Biostatistics	A Dobson	OCL	For Biostatistics course students only
EPM5008	Longitudinal & Correlated Data Analysis	Andrew Forbes	OCL	For Biostatistics course students only
EPM5010	Survival Analysis	G Heller	OCL	For Biostatistics course students only
EPM5011	Biostatistical Practical Project (double unit)**	Andrew Forbes	OCL	For Biostatistics course students only
EPM5014	Probability & Distribution Theory	Rory Wolfe	OCL	For Biostatistics course students only
EPM5015	Biostatistical Practical Project (single unit)	Andrew Forbes	OCL	For Biostatistics course students only
EPM5020	Comparative Moral Theory	Guy Petterson	OCL	IRB
EPM5021	Ethical Research With At Risk Populations	Liz Bishop	OCL	28 May – 1 June
HSC5002	Foundations of Health Promotion and Program Planning	Emma Bruce	OCL + 2 day block	18 March + 6 May
HSC5032	Health Literacy	Helen Keleher	OCL + block days	

## Key:

\*\* full year unit

OCL = Off-Campus Learning mode of study (Distance Education)

■ Timely enrolment is encouraged as quotas apply to most international health units

◆ Scheduled outside standard semester

<sup>†</sup> attached OR Contact Burnet Institute (9282 2163) 2 months prior for dates or check [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

<sup>§</sup> Contact Jenny Watts on [jenny.watts@monash.edu](mailto:jenny.watts@monash.edu) before 1 October for summer semester dates

**Note:** Some block teaching periods fall outside the standard semester dates.

**Note:** Quotas exist for International Health units so timely enrolment is encouraged.

# Timetable 2012, Semester 2

23 July – 19 October (Vacation: 24–28 September)

Timetable subject to change – Check timetable changes on [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

Unit	Title	Coordinator	Mode	Date/Time	Stream
MPH1003	Environmental Influences on Health	Ewan MacFarlane	OCL + 3 block days	3–5 Sept	OEH
MPH2013	Research Methods	Anita Wluka	Option 1 – Weekly – DAY	Thurs 9–11am	CE
MPH2013	Research Methods	Anita Wluka	Option 2 – OCL + 2 day block – DE	31 July – 1 Aug	CE
MPH2018	Infectious Diseases: Epidemiology & Prevention	Karin Leder / Robert Hall	OCL + 3 block days	26 July + 6 Sept + 18 Oct	CE
MPH2022	Assessment & Control of Workplace Hazards	Deborah Glass	OCL + 3 day block	27–29 Aug	OEH
MPH2036	Clinical Trials	Chris Reid	OCL + 2 day block	13–14 Aug	CE
MPH2039	Meta Analysis and Systematic Reviews	Rachelle Buchbinder	OCL + 2 block days	30 July + 8 Oct	CE
MPH2044	Ergonomic & Physical Hazards	Ruth Stuckey	OCL + 3 day block	20–22 Aug	OEH
MPH2047	Child Public Health	Bella Laird	6 day block		G
MPH2048	Primary Health Care in Developing Countries <sup>■</sup>	Chris Morgan	5 day block	13–17 August	IH
MPH2049	Field Methods for IH Planning and Evaluation <sup>■</sup>	Tony Stewart	5 day block	3–7 Sept	IH
MPH2051	Communicable Disease Control in Dev. Countries	Mick Creati	5x4 w/day hrs 1x7 w/end hrs	see timetable attached	IH
MPH2054	Nutrition in Developing Countries	Mike Toole	3x2 w/day hrs 3x7 w/end hrs	see timetable attached	IH
MPH2056	Injury Epidemiology & Prevention	Belinda Gabbe	5 day block	2–6 July	OEH
MPH2057	Aboriginal Health <sup>◆</sup>	Caroline Van Gemet	5 day block	20–27 Sept	IH
MPH2058	Effective Response to HIV in Dev. Countries <sup>◆◆</sup>	Lisa Renkin	7 day block	3–11 July	IH
MPH2060	Health Policy & Prevention in a Global World	Fahad Hanna	OCL + 2 block days	3 Aug + 14 Sept	IH
MPH2065	Law for Health Systems	Elizabeth Kennedy	OCL + 2 block days	6 Aug + 17 Sept	HSM
MPH2067	Principles of H/Care Quality Improvement	Sue Evans	OCL + 2 block days	24 July + 18 Sept	HSM
MPH2070	Advanced Statistical Methods for Clinical Research	Rory Wolfe	OCL + 3 day block	not offered in 2012	CE
MPH2072	Reform & Development of Health Services	Ajay Mahal	OCL + 2 block days	25 July + 19 Sept	HSM
MPH2076	Safety Management Systems	Neville Betts	OCL + 3 day block	1–3 October	OEH
MPH2083	Ethics, Good Research Practice & Practical Research Skills	Liz Bishop	OCL + 2 day block	7–8 Aug	CRM
MPH2086	Applying & Practicing the Principles of PS & QI	Joseph Ibrahim	OCL + 2 block days	27 July + 12 Sept	HSM
MPH5042	Climate Change and Public Health	Judy Molnes	OCL + 2 block days	26 July + 20 Sept	

Note: Quotas exist for International Health units so timely enrolment is encouraged. Some block teaching periods fall outside the standard semester dates.

Other Units	Coordinator	Mode	Date/Time	Stream
DPH6003	Advanced Research Methods	Michael Abramson	OCL + 2 block days	DPH
DPH6004	Health Leadership & Management	Just Stoelwinder	OCL + 2 block days	DPH
DPH6005	Public Health Practice	Robert Hall	OCL	DPH
ECX9710	Pharmaceutical Economics	Jenny Watts	OCL	MPH
ECX9720	Introduction to Epidemiology & Biostatistics	Flavia Cicuttini	OCL	G
ECX9730	Economics Evaluation in Health Care	Rohan Sweeney	OCL	MPH
EPM5002	Mathematical Background for Biostatistics	K Dear	OCL	For Biostatistics course students only BS
EPM5003	Principles of Statistical Inference	A Kirby	OCL	For Biostatistics course students only BS
EPM5004	Linear Models	Andrew Forbes	OCL	For Biostatistics course students only BS
EPM5005	Data Management & Statistical Computing	C D'Este	OCL	For Biostatistics course students only BS
EPM5007	Design of Experiments & Clinical Trials	Phillip Ryan	OCL	For Biostatistics course students only BS
EPM5009	Categorical Data & Generalised Linear Models	A Dobson	OCL	For Biostatistics course students only BS
EPM5011	Biostatistical Practical Project (double unit)**	Andrew Forbes	OCL	For Biostatistics course students only BS
EPM5012	Bioinformatics	G Byrnes	OCL	For Biostatistics course students only BS
EPM5013	Bayesian Statistical Methods	L Gurrin	OCL	For Biostatistics course students only BS
EPM5014	Probability & Distribution Theory	Rory Wolfe	OCL	For Biostatistics course students only BS
EPM5015	Biostatistical Practical Project (single unit)	Andrew Forbes	OCL	For Biostatistics course students only BS
EPM5016	Advanced Clinical Trials	V GebSKI	OCL	next offered in 2013 BS
EPM5023	Health Research and Exploitation with Low Income Countries	TBC	OCL	RB
EPM5024	Legal Issues in Research	Liz Bishop	OCL	RB
HSC5022	Evaluating Public Health Programs	Ben Smith	OCL + 2 x 2 day block	MPH
APG4772	Community development in a globalising world	contact Faculty of Arts for information	Weekly	IH
APG5805	The Art and Business of International Development	C Thorburn	Weekly	check Monash timetable IH

Summer Semester					
MPH2082	Health Communication & Training <sup>◆◆</sup>	Lisa Natoli	6 day block	17–24 October	IH
EPM5025	Human Research Ethics Committees: Ethical Review of Research and Research Governance	Liz Bishop	OCL		RB

#### Location venue key:

**AMREP** = AMREP Education Centre, Ground Floor, Alfred Hospital

**C** = Classroom 1–3, **MR** = Meeting Rooms 1–6, **SR** = Seminar Room

**Bumet** = Burnet Institute, Training Rooms, Level 2, 85 Commercial Rd, Melbourne

**MonAif** = Lecture Theatre, Seminar Room, Tutorial Rooms, PC Lab are located on Level 5, Alfred Centre, 99 Commercial Rd (near cnr Punt Rd), Melbourne

**RCH** = Royal Children's Hospital, Centre for Community Health, Flemington Rd, Parkville

# Teaching Locations 2012

## Department of Epidemiology & Preventive Medicine A

School of Public Health & Preventive Medicine  
6th Floor, The Alfred Centre  
99 Commercial Road (near Punt Rd cnr)

**Postgraduate Office: 9903 0563**

Easily accessible by public transport and has limited on-street parking.

Map: [www.med.monash.edu.au/epidemiology/about/contacts.html](http://www.med.monash.edu.au/epidemiology/about/contacts.html)  
Melway map reference: 2L B9 / 58 B5

## Alfred Medical Research Education Precinct (AMREP) B

Ground Floor, next to Ian Potter Library  
Alfred Hospital  
Commercial Road, Melbourne

Map: [www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf](http://www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf)  
Melway map reference: 58 B5

## Burnet Institute C

Centre for International Health  
Alfred Hospital  
87-89 Commercial Road, Melbourne

**Student Liaison Office: 9282 2167**

Easily accessible by public transport and has limited on-street parking.

Map: [www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf](http://www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf)  
Melway map reference: 2L D12

## Royal Children's Hospital (RCH) D

Centre for Community Health  
Flemington Road, Parkville

The centre is easily accessible by public transport.

Melway map reference: 2A J5

Melway map references sourced from *Melway Street Directory, Edition 28, 2002*.  
Web: [www.ausway.com](http://www.ausway.com)



# Application Information

## Semester Dates 2012

**Semester 1:** 27 February – 25 May  
Vacation: 6–13 April

**Semester 2:** 23 July – 19 October  
Vacation: 24–28 September

## Entry Requirements

General entry requirements may vary for some courses. See individual course descriptions for further information.

For additional international entry requirements refer to the International Postgraduate Course Guide or [www.monash.edu.au/international/](http://www.monash.edu.au/international/)

Please note that further to the University's minimum English language requirements, all courses listed in this guide require the following supplementary prerequisites. An IELTS overall band score of 7.0 with no individual band score being less than 6.5.

## Application Procedures

### Local Applicants

All our postgraduate courses are available to local students. Local applicants can apply on the Application Form available at the end of this booklet or via online – [www.adm.monash.edu.au/admissions/pgdirectappform.html](http://www.adm.monash.edu.au/admissions/pgdirectappform.html)

**Note:** All DPH applicants are required to consult with the Course Coordinator prior to submitting an application. Refer to the individual DPH course description for further information.

### Submit all local applications to:

Postgraduate Office  
School of Public Health and Preventive Medicine  
Department of Epidemiology & Preventive Medicine  
Monash University  
The Alfred Centre, 99 Commercial Road, Melbourne VIC 3004

## 2012 Local applications closing dates:

**20th November 2011 – First round**  
**20th January 2012 – Second round**

## International Applicants

Our postgraduate full-time courses are available to international students. For full application details refer to the International website: [www.monash.edu/study/international/](http://www.monash.edu/study/international/)

### For international application forms and inquiries please contact:

International Recruitment Services  
Monash University  
871 Dandenong Road, Caulfield East, Victoria 3145, Australia

**T:** +61 3 9903 4788

**E:** [study@monash.edu](mailto:study@monash.edu)

## Credit / Advanced Standing

Advanced standing and credit transfer may be granted for units where the student supplies documentary evidence of successfully completing a similar unit at a similar level elsewhere, within the last ten years.

Any candidate, with the approval of the course coordinator, may be granted up to 50% credit / advanced standing toward their course. All credit applications are assessed on a case-by-case basis and can be submitted at the time of course application.

Application for Credit / Advanced Standing forms are available from: [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)  
Completed forms must be accompanied with full documentation, including unit /course outlines and content descriptions, academic transcripts etc.

For further information on obtaining credit please refer to: [www.med.monash.edu.au/pgrad/policies/articulate.doc](http://www.med.monash.edu.au/pgrad/policies/articulate.doc)

## Course Fees

Our postgraduate course fees are reviewed annually and are subject to approval by the University. All our courses are fee-paying except for the Doctor of Public Health (DPH) where the RTS scheme applies.

### Fee-Paying Courses

All our postgraduate coursework programs are offered as full-fee paying courses except for the Doctor of Public Health (DPH) offered under the RTS. Students in full-fee paying courses pay the full tuition cost of the course and must make the payment upfront each semester. Details of course fees for Australian citizens and permanent residents are indicated below. Fees quoted are subject to change and are indicative only.

### Research Training Scheme (RTS)

Most Australian or permanent resident research students at Monash University are granted a government-funded Research Training Scheme (RTS) place. Under this scheme, research students receive two full-time equivalent years of funding for a research master course and four years of full-time equivalent funding for doctoral studies. If an RTS place is not available, students will usually be given a non-commonwealth-funded place where the course fees are fully waived until an RTS place becomes available. Alternatively, some research courses offer non-commonwealth-funded places on a fee-paying basis. Under the RTS, it is a statutory requirement that all higher degree by research students provide details of previous enrolment/s in research programs to determine eligibility for RTS funding.

### Higher Education Loan Programs (HELP)

The FEE-HELP scheme provides an interest-free, income-contingent loan facility for students. Australian citizens and holders of a permanent humanitarian visa are eligible for the FEE-HELP scheme. Eligible students wishing to fund part or all of their tuition fees through FEE-HELP must complete the loan request form by the relevant census date and provide a tax file number. A student can elect to pay a portion of fees directly to the university and the remaining debt will be registered as a loan through the Australian Taxation Office (ATO). Students will commence repaying any HELP loan through the ATO once their income reaches the minimum threshold for compulsory repayment. A loan for up to the full tuition fee charged for the course can be accessed, but there is a lifetime limit, see the following for details:

<http://adm.monash.edu.au/enrolments/fee-help/>

For more information, contact the Student Services Centre on each campus or visit the DEEWR website at: [www.goingtouni.gov.au/](http://www.goingtouni.gov.au/)

## Monash Fees Unit

For all your fees queries please contact the Monash Fees Unit on

**T:** +61 3 9902 6011

**E:** fees.unit@monash.edu

**W:** <http://monash.edu.au/fees/>

**Note:** fee statements will be emailed available online via My Monash Portal / WES and will NOT be posted to students. Please check your Monash email account.

For University fee information contact the Monash Fees Office on

**T:** +61 3 9902 6011

**E:** fees.unit@monash.edu

### Course fees for 2012 (subject to university approval)

#### Domestic students

Fee paying courses between \$19,060–20,530 per full-time year (8 units)

For details see: [www.monash.edu.au/study/coursefinder/](http://www.monash.edu.au/study/coursefinder/) FEE-HELP available.

Doctor of Public Health – RTS

Single Unit approximately \$2,382–50

#### International students

Fee paying courses approximately A\$34,500 per full-time year (8 units)

Master of International Health and A\$19,800 per full-time year (8 units)

**For future years of your course, Monash University reserves the right to adjust annual tuition fees.**

## Further information

**Postgraduate Office**  
Department of Epidemiology  
and Preventive Medicine  
The Alfred Centre,  
Melbourne VIC 3004

**T:** +61 3 9903 0563

**F:** +61 3 9903 0556

**E:** pgradenq@monash.edu

**W:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

# Direct Application Form 2012

This form to be used for Postgraduate (Coursework) and Single Unit Enrolment (SUE) direct course applications

*Do not use this form to apply for the Doctor of Public Health*

## MONASH University

### Postgraduate Office

Department of Epidemiology & Preventive Medicine  
 School of Public Health & Preventive Medicine  
 Monash University  
 The Alfred Centre, Commercial Road, Melbourne VIC 3004

**E:** pgradenq@monash.edu

**W:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

**Closing dates:**

**Round 1:** 20 November, 2011  
**Round 2:** 20 January, 2012 *subject to course availability*  
**Mid-year:** 20 June, 2012 *subject to course availability*

**Course code**

**ID Number** *office use only*

**Course name**

**Residency status** *please tick appropriate option and provide evidence of citizenship*

Australian citizen       Permanent resident of Australia       New Zealand citizen

*International students must apply through Monash International – see the Postgraduate Course Guide for International Students or visit their website: [www.monash.edu.au/international/](http://www.monash.edu.au/international/); email: [scenquiries@adm.monash.edu.au](mailto:scenquiries@adm.monash.edu.au)*

**Personal details**

Title  Given names  Surname

Sex  M  F      Date of birth

Have you previously applied and/or studied at Monash University?  
*If yes, please state Monash ID number if known*       Yes       No

Have you changed your name since you last applied/studied at Monash University?  
*If yes, please provide/attach relevant documentation.*       Yes       No

**Postal address for correspondence**

Number & street

Suburb  State

Country  Postcode

Phone (AH)  Phone (BH)

Phone (mobile)  Facsimile

Email address



**Application details**

Course title & code  
*MPH applicants please list stream of interest:*

or Single unit enrolment

Semester commencing studies

Semester 1  
 Semester 2 *mid-year entry*

Attendance type      Attendance mode

FT                       On campus (*internal*)  
 PT                       Off campus learning (*OCL*)  
 Single unit

I understand that it is my responsibility to check my enrolment record is correct by referring to official university correspondence and by viewing my details on the web. I understand that I can view and amend my enrolment, once I become a Monash University student, on the web at [my.monash.edu.au/wes/](http://my.monash.edu.au/wes/). I have read the University's statement on privacy and the purposes for which my personal information will be used (available at [www.privacy.monash.edu.au/guidelines/collection-personal-information.html](http://www.privacy.monash.edu.au/guidelines/collection-personal-information.html)). I agree to be bound by the statutes, regulations and policies of the University as amended from time to time and agree to pay all fees, levies and charges directly arising from my enrolment and re-enrolment consequent to my application. **I consent to receiving information electronically and agree to access the correspondence of my Monash University email account on a regular basis.** If I am an enrollee in the Biostatistics courses taught by the Biostatistics Collaboration of Australia, I understand and consent to my personal information being disclosed to the relevant staff of these universities for the purposes outlined in our privacy webpage listed above.

Applicant's signature

Date

**Checklist**

Have you included evidence of citizenship? (*if applicable*)  YES

Have you included the original a certified copy of your academic transcript?  YES

Have you completed the educational and work experience particulars?  YES

Have you included relevant information and a detailed curriculum vitae?  YES

Have you signed the declaration?  YES

Have you included an application form for Credit / Advanced Standing? (*if applicable*)  YES

If you would like an acknowledgement that we have received your application, please complete **(print)** the details below

Name

Address

Course applied for

Date application was received in the DEPM

**Monash University**  
**Department of Epidemiology and Preventive Medicine**

**School of Public Health and Preventive Medicine**  
Level 6, The Alfred Centre (Alfred Hospital)  
99 Commercial Road  
Melbourne VIC 3004

**Course inquiries**

**Faculty of Medicine, Nursing and Health Sciences**

**Monash University**  
**Department of Epidemiology and Preventive Medicine**  
**School of Public Health and Preventive Medicine**  
Alfred Hospital  
Commercial Road  
Melbourne VIC 3004

**E:** [pgradenq@monash.edu](mailto:pgradenq@monash.edu)

**W:** [www.med.monash.edu.au/epidemiology/pgrad/](http://www.med.monash.edu.au/epidemiology/pgrad/)

**T:** +61 3 9903 0563

**F:** +61 3 9903 0556