2016 Postgraduate Courses in Public Health & Preventive Medicine
Department of Epidemiology & Preventive Medicine, Alfred Hospital
Creating knowledge for improved health and prevention of disease through education, innovation and research.
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 (SPHPM) is one of the largest schools within the Monash University Faculty of Medicine, Nursing and Health Sciences.

SPHPM fosters leadership in staff and students – it is comprised of many public health leaders and experts and enables its students to contribute to the field of public health from the outset of their career and studies.

As a centre of excellence dedicated to learning and research, our School is a leading influencer and contributor to public health on national and global scales, working closely with the major Monash affiliated hospitals, research institutes and public health units. Our international links include overseas Monash campuses and our inclusion in the M8 Alliance.

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, providing us with a key resource for 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 over 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 17 postgraduate courses which in 2015 enrolled over 600 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
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Using this guide
This guide contains general information on the postgraduate courses offered for 2016 in the Department of Epidemiology & Preventive Medicine (DEPM). All information is correct at the time of printing, September 2015. All changes to the DEPM timetable will be published on our webpage:
www.med.monash.edu.au/epidemiology/pgrad/
# Postgraduate Courses 2016

<table>
<thead>
<tr>
<th>Course Code</th>
<th>CRICOS Code</th>
<th># Units Req.</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td><strong>Public Health</strong></td>
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<tr>
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<td>021280B</td>
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<tr>
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<td>Graduate Diploma in International Health</td>
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Public Health

Master of Public Health (Multi-modal)

Course code: 0046
CRICOS code: 021280B

Study mode:
Domestic students: Multi-modal with compulsory block requirements + block or partial block.
International students: On-campus.

Study length:
Part-time: 3 years;
Full-time: 1.5 years

Course structure:
3 core units +
• elective units, or
• 5–7 elective units and a 12 credit point research project equivalent to 2 units or a 24 credit point research project equivalent to 4 units

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 public health development and 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 online.

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, Public Health and Research.

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

Students have the opportunity to undertake the unit MPH5273 Case study in health services where students can explore in detail a complex problem in the student’s workplace or health care setting. (Subject to Course Coordinator’s approval) The case study is designed to review and consolidate the theoretical and practical skills acquired in the Master of Public Health and apply these to a practical situation in a way that is relevant to the development of the student’s future career.

Core units (3)
MPH5040 Introductory epidemiology
MPH5041 Introductory biostatistics
MPH5213 Research methods OR MPH5249 Field methods for international health planning & evaluation (for International Health stream)

NOTE: All students MUST complete units MPH5040 and MPH5041 and either MPH5213 or MPH5249 as described above, to be eligible for the award.

Elective Health Streams
Clinical Research Methods
Disease Prevention and Health Promotion
Health Economics
Health Services Management
International Health
Occupational and Environmental Health
Public Health
Research
General Stream
Our MPH provides you with

- An internationally recognised and respected degree
- Greater flexibility in unit choices
- Choice of on-campus or off-campus learning
- Graduate Certificate / Graduate Diploma exit options
- Greater number of units offered in a flexible delivery mode
- Case Study / Practical experience opportunity in final year
- Knowledge and skills to develop your career and contribute to public health
- Pathway opportunities into a PhD
- Programs including Research and Writing skills, Introduction to Moodle to facilitate return to study

Entry requirement
You must have an undergraduate degree in an appropriate discipline and one to two years of 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/

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 medical and allied health professional practice, research, public health sector in government and non-government organisations, management positions within health care facilities, international positions with aid organisations/ or in developing countries.

Pathways to PhD
Students who successfully complete the MPH including a 12 credit point Project units: MPH5232 and MPH5231 and achieve Distinction (70-79%) – High Distinction (≥80%) in units: MPH5040, MPH5041 and MPH5213 may qualify for entry into a PhD.

Students who successfully complete the MPH including a 24 credit point Project and achieve Distinction (70-79%) – High Distinction (≥80%) in units: MPH5040, MPH5041 and MPH5213 may qualify for entry into a PhD.

Students who successfully complete the MPH (Clinical Research stream) and achieve a Distinction (70-79%) average in the following 5 recommended electives: MPH5213 or MPH5249, MPH5236, MPH5207, MPH5202 and MPH5200 may qualify for entry into a PhD.

Further information is available at: www.monash.edu.au/migr/apply/eligibility/equivalence/index.html

Further information

Course coordinator:
Dr Helen Kelsall
E: helen.kelsall@monash.edu
**Recommended Enrolment: Health Specialisations**

### Clinical Research Methods stream

**Part-time**

**Semester 1 – Year 1**
- MPH5040 Introductory epidemiology#
- MPH5041 Introductory biostatistics#

**Semester 2**
- MPH5213 Research methods#
- MPH5283 Ethics, good research practice & practical research skills

**Semester 1 – Year 2**
- MPH5237 Clinical measurement
- Elective

**Semester 2**
- MPH5236 Clinical trials
- MPH5239 Systematic reviews & meta-analysis

**Semester 1 – Year 3**
- MPH5200 Regression methods for epidemiology (E)
- MPH5202 Clinical epidemiology (E)

**Semester 2**
- Elective x 2

**Elective options (E)**
- MPH5207 Chronic diseases: epidemiology & prevention
- MPH5218 Infectious diseases: epidemiology & prevention
- MPH5256 Injury epidemiology & prevention
- MPH5270 Advanced statistical methods for clinical research
- MAP4200 Improving Indigenous equity in professional practice

12 credit point project units: MPH5231 Research design & project proposal and MPH5232 Research conduct analysis, write-up & submission (7,000-8,000 words) – prerequisites apply

**Stream coordinator:** Dr S Pomeroy  
**Email:** sylvia.pomeroy@monash.edu

### Disease Prevention and Health Promotion stream

**Part-time**

**Semester 1 – Year 1**
- MPH5040 Introductory epidemiology#
- MPH5041 Introductory biostatistics#

**Semester 2**
- MPH5213 Research methods#
- Elective

**Semester 1 – Year 2**
- HSC5002 Foundations of health promotion and program planning
- MPH5207 Chronic disease: epidemiology and prevention

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

**Semester 1 – Year 3**
- Elective x 2

**Semester 2**
- Elective x 2

**Elective options (E)**
- MPH5402 Climate change and public health
- MPH5218 Infectious diseases: epidemiology and prevention
- MPH5255 Health and human rights
- MPH5256 Injury epidemiology and prevention
- MPH5259 Foundations of health policy
- MPH5282 Health communication and training
- MPH5290 Improving Indigenous equity in professional practice
- MPH approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015)

12 credit point project units: MPH5231 Research design & project proposal and MPH5232 Research conduct analysis, write-up & submission (7,000-8,000 words) – prerequisites required

MPH5273 Case study for health services management

**Stream coordinator:** A/Prof B Smith  
**Email:** ben.smith@monash.edu

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**NOTE:**

- Students MUST check current mode of teaching – see timetable: www.med.monash.edu.au/epidemiology/pgrad/  
- MPH core units are highlighted in **bold black** – Students MUST complete core units  
- # Available in on and off-campus mode  
- E = Elective unit  
- 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, Venue and unit offering MODE available at: www.med.monash.edu.au/epidemiology/pgrad  
- EXIT options – Graduate Certificate and Graduate Diploma options are available in Clinical Research Methods, Health Services Management, International Health and Occupational & Environmental Health. Please check units required.
Health Economics stream

Part-time

Semester 1 – Year 1
MPH5040 Introductory epidemiology#
MPH5041 Introductory biostatistics#

Semester 2
MPH5213 Research methods#
ECC5973 Economic evaluation in health care

Semester 1 – Year 2
ECC5970 Introduction to health economics
Elective

Semester 2
ECC5971 Pharmaceutical economics (E)
ECC5974 Applied health economics & health policy

Semester 1 – Year 3
MPH5268 Financial issues in health care management (E)
ECC5975 Health economics for developing countries (E)

Semester 2
Electives x 2

Elective options (E)
MPH approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015)

Stream coordinator: A/Prof D Mortimer
Email: duncan.mortimer@monash.edu

NOTE:
Students MUST check current mode of teaching – see timetable:
www.med.monash.edu.au/epidemiology/pgrad/

E = Elective unit
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.

Health Services Management stream

Part-time

Semester 1 – Year 1
MPH5040 Introductory epidemiology#
MPH5041 Introductory biostatistics#

Semester 2
MPH5213 Research methods#
MPH5267 Principles of health care quality improvement

Semester 1 – Year 2
MPH5266 Clinical leadership & management
MPH5269 Foundations of health policy (E)

Semester 2
MPH5272 Reform & development of health services (E)
MPH5265 Law for health systems (E)

Semester 1 – Year 3
MPH5268 Financial issues in health care management (E)
Elective

Semester 2
Electives x 2

Elective options (E)
MPH approved unit (except units: MPH5020, MPH5301-5313, EPM5001-5015)

Stream coordinator: Professor J Stoelwinder
Email: just.stoelwinder@monash.edu

NOTE:
Students MUST check current mode of teaching – see timetable:
www.med.monash.edu.au/epidemiology/pgrad/

MPH core units are highlighted in bold black – Students MUST complete core units
# Available in on and off-campus mode

W: Census dates & Teaching Periods –
www.monash.edu.au/enrolments/dates/census.html

EXIT options – Graduate Certificate and Graduate Diploma options are available in Clinical Research Methods, Health Services Management, International Health and Occupational & Environmental Health. Please check units required.
### Recommended Enrolment: Health Specialisations (continued)

#### International Health stream

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Semester 1 – Year 1</strong></td>
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<tr>
<td>MPH5040 Introductory epidemiology#</td>
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<tr>
<td>MPH5041 Introductory biostatistics#</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>MPH5248 Primary health care &amp; global health</td>
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<tr>
<td>MPH5249 Field methods for international health planning and evaluation</td>
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<tr>
<td><strong>Semester 1 – Year 2</strong></td>
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<tr>
<td>MPH5255 Health and human rights</td>
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<tr>
<td>Elective</td>
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<td><strong>Semester 2</strong></td>
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<tr>
<td>EPM5023 Ethical issues in international health and research</td>
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<td><strong>Semester 1 – Year 3</strong></td>
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<td>Elective x 2</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>Elective x 2</td>
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<tr>
<td><strong>Elective options (E)</strong></td>
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<tr>
<td>MPH5250 Women’s &amp; children’s health: a global perspective</td>
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<tr>
<td>MPH5251 Communicable diseases control in developing countries</td>
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<tr>
<td>MPH5253 Public health in refugee settings</td>
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<td>MPH5254 Nutrition in developing countries</td>
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<td>MPH5258 Effective responses to HIV in developing countries</td>
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<td>MPH5269 Foundations of health policy</td>
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<td>MPH5282 Health communication and training</td>
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<td>MPH5287 Alcohol and other drugs in society: A national and global perspective</td>
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<tr>
<td>MPH5042 Climate change and public health</td>
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<td>ECC5975 Health economics for developing countries</td>
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<td>MAP4200 Improving Indigenous equity in professional practice</td>
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<td>MPH approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015)</td>
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<tr>
<td>12 credit point project, units: MPH5231 Research design &amp; project proposal and MPH5232 Research conduct analysis, write-up &amp; submission (7,000-8,000 words) – prerequisites required</td>
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**Stream coordinator:** A/Prof Bebe Loff  
**Email:** bebe.loff@monash.edu

#### Occupational and Environmental Health stream

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<td><strong>Semester 2</strong></td>
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<tr>
<td>MPH5213 Research methods#</td>
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<tr>
<td>MPH5203 Environmental influences on health</td>
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<tr>
<td><strong>Semester 1 – Year 2</strong></td>
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<tr>
<td>MPH5241 Introduction to occupational health &amp; safety</td>
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<td>MPH5243 Chemical and biological hazards (E)</td>
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<tr>
<td>MPH5244 Ergonomic &amp; physical hazards (E)</td>
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<td>MPH5222 Assessment &amp; control of workplace hazards (E)</td>
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<td>MPH5242 Psychosocial work environment (E)</td>
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<td>MPH5042 Climate change &amp; public health</td>
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<td>MPH5256 Injury epidemiology &amp; prevention</td>
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<td>12 credit point project, units: MPH5231 Research design &amp; project proposal and MPH5232 Research conduct analysis, write-up &amp; submission (7,000-8,000 words) – prerequisites required</td>
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**Stream coordinator:** Professor M Sim  
**Email:** malcolm.sim@monash.edu

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**NOTE:**  
Students MUST check current mode of teaching – see timetable:  
MPH core units are highlighted in **bold black** – Students MUST complete core units  
# Available in on and off-campus mode  
E = Elective unit  
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, Venue and unit offering MODE available at:**  
**W: Census dates & Teaching Periods –**  
**EXIT options** – Graduate Certificate and Graduate Diploma options are available in Clinical Research Methods, Health Services Management, International Health and Occupational & Environmental Health. Please check units required.
Public Health Stream

Part-time

Semester 1 – Year 1
MPH5040 Introductory Epidemiology
MPH5041 Introductory Biostatistics

Semester 2 – Year 1
MPH5213 Research Methods
MPH5203 Environmental Influences on Health

Semester 1 – Year 2
ECC5970 Introduction to Health Economics
MPH5207 Chronic Diseases: Epidemiology and Prevention

Semester 2 – Year 2
Elective x 2

Semester 1 – Year 3
MPH5266 Clinical Leadership and Management
MPH5269 Foundations of health policy

Semester 2 – Year 3
Elective x 2

Elective Options (E)
MPH5042 Climate change and public health
MPH5200 Regression methods for epidemiology
MPH5218 Infectious diseases: Epidemiology and prevention
MPH5248 Primary health care & global health
MPH5205 Health and human rights
MPH5256 Injury epidemiology and prevention
MPH5269 Financial issues in health care management
HSC5002 Foundations of health promotion and program planning
HSC5022 Evaluating public health programs
MAP4200 Improving Indigenous equity in professional practice

MPH approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015) with the permission of the course coordinator

12 credit point project, units: MPH5231 Research design & project proposal and MPH5232 Research conduct analysis, write-up & submission (7,000-8,000 words) – prerequisites required

MPH5273 Case study in health services management

Stream coordinator: Dr H Kelsall
Email: helen.kelsall@monash.edu

Research stream

Prerequisites: Distinction (70%) – High Distinction (80%) in the units: MPH5040 and MPH5041. Consultation with the Project Coordinator is required prior to enrolment in the research project.

Corequisite: Distinction (70%) in the units: MPH5213 or MPH5249.

Part-time

Semester 1 – Year 1
MPH5040 Introductory epidemiology#
MPH5041 Introductory biostatistics#

Semester 2
MPH5213 Research methods#
Elective

Semester 1 – Year 2
Elective x 2

Semester 2
Elective x 2

Semester 1 – Year 3
Major project – MAP5000 Research in advanced health professional practice – prerequisites apply

Semester 2
Major project – MAP5001 Advanced health practice research project 8-10,000 words) – prerequisites apply

MPH approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015)

Stream coordinator: Professor Belinda Gabbe
Email: belinda.gabbe@monash.edu

NOTE:
Students MUST check current mode of teaching – see timetables: www.med.monash.edu.au/epidemiology/pgrad/
MPH core units are highlighted in bold black – Students MUST complete core units
# Available in on and off-campus mode
E = Elective unit

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, Venue and unit offering MODE available at: www.med.monash.edu.au/epidemiology/pgrad
EXIT options – Graduate Certificate and Graduate Diploma options are available in Clinical Research Methods, Health Services Management, International Health and Occupational & Environmental Health.

Please check units required.
Recommended Enrolment: Health Specialisations (continued)

General stream

Part-time

Semester 1 – Year 1
MPH5040 Introductory epidemiology#
MPH5041 Introductory biostatistics#

Semester 2
MPH5213 Research methods#
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 approved unit (except units: MPH5020, MPH5301-5314, EPM5001-5015)

Students wishing to undertake a mix of MPH coded units (other than the exceptions listed) can do so provided they complete core units: MPH5040, MPH5041, MPH5213 (or MPH5249 for those students following the International Health stream); consideration required of any prerequisites units that may apply to individual units.

Prerequisites are listed in the Monash Handbook online at http://monash.edu.au/pubs/handbooks/

MPH5273 Case study for health services management

Stream coordinator: Dr H Kelsall
Email: helen.kelsall@monash.edu

NOTE: Students MUST check current mode of teaching – see timetable: www.med.monash.edu.au/epidemiology/pgrad/

MPH core units are highlighted in **bold black** – Students MUST complete core units

* Available in on and off-campus mode

E = Elective unit

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, Venue and unit offering MODE available at: www.med.monash.edu.au/epidemiology/pgrad


EXIT options – Graduate Certificate and Graduate Diploma options are available in Clinical Research Methods, Health Services Management, International Health and Occupational & Environmental Health.

Please check units required.
Public Health

Master of Public Health (Online)

Course code: 4529
CRICOS code: n/a
Study mode: Online
Student length:
Part-time: 4 years;
Full-time: 2 years
Course Structure:
12 core units

These units are run in a carousel model and only offered once every 24 months in a teaching period consisting of six weeks. These units are not interchangeable with our multi-modal MPH course code: 0046.

TP/Year Unit

2016
1/2016 MPH5308 Developing health systems
2/2016 MPH5309 Occupational health and safety
3/2016 MPH5314 Epidemiology of chronic disease
4/2016 MPH5301 Health systems and policy
5/2016 MPH5302 Biostatistics: concepts and applications
6/2016 MPH5303 Epidemiology of infectious diseases

2017
1/2017 MPH5304 Leading and managing in public health and health care
2/2017 MPH5305 Epidemiology: concepts and applications
3/2017 MPH5310 Introduction to environmental health
4/2017 MPH5306 Evaluation in public health
5/2017 MPH5307 Introduction to health law principles
6/2017 MPH5313 Challenges in public health

The course provides the full range of quantitative, analytical and communication skills necessary to work in the broad domain of public health. It also provides skills in the quantitative methods of the population-based health sciences and their problem-solving application for primary care provision within Australia and developing countries.

Entry requirement
Applicants must have an undergraduate degree in a relevant or related discipline and relevant professional experience.

International Entry requirement refer to: www.monash.edu.au/international/

Assessment
Assessment includes web-based tasks, written exercises, assignments and examinations.

Professional recognition
This course fulfills the core discipline requirements of a Master of Public Health for the Australasian Faculty of Public Health Medicine.

Career Fields
Public health practice in governments, community health, and non-government and international aid organisations.

Further information
E: admissions.online@monash.edu
W: www.monash.edu.au/study/coursefinder/course/4529
# Biostatistics

## Master

### Biostatistics

**Course code:** 3422  
**CRICOS code:** n/a  
**Study mode:**  
- **Domestic students:** Off-Campus Learning (OCL)  
- **International students:** N/A  
**Study length:**  
- **Part-time:** 3 years;  
- **Full-time:** n/a  
**Course structure:**  
- 10 core units + 2 elective units

## Graduate Diploma in Biostatistics

**Course code:** 3421  
**CRICOS code:** n/a  
**Study mode:**  
- **Domestic students:** Part-time + Off-Campus Learning (OCL)  
- **International students:** N/A  
**Study length:**  
- **Part-time:** 2 years;  
- **Full-time:** n/a  
**Course structure:**  
- 8 core units

## Graduate Certificate in Biostatistics

**Course code:** 3420  
**CRICOS code:** n/a  
**Study mode:**  
- **Domestic students:** Part-time + Off-Campus Learning (OCL)  
- **International students:** N/A  
**Study length:**  
- **Part-time:** 1 year;  
- **Full-time:** n/a  
**Course structure:**  
- 1 core units + 3 elective units

The Biostatistics course programs of the School of Public Health and Preventive Medicine are part of a national consortium of universities known as the Biostatistics Collaboration of Australia. The units studied in the various degree programs are delivered in off-campus mode (distance education) by staff of Monash University and of other universities in the Collaboration. Details of how the Collaboration operates are provided at: [http://www.bca.edu.au/howthebcaworksnutshell.html](http://www.bca.edu.au/howthebcaworksnutshell.html).

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.

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 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 assists you in understanding the principles of epidemiology and its biostatistical underpinnings, practical application as well as improving your computing and data management skills.
Entry requirement

MPH5041 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 year’s 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 the Masters program),

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.

Biostatistics

<table>
<thead>
<tr>
<th>Core units</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1 – Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5040 Introductory epidemiology</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>EPM5002 Mathematical background for biostatistics</td>
<td>☑ (E)</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
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<tr>
<td>EPM5007 Design of experiments &amp; clinical trials</td>
<td>☑ (E)</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>EPM5014 Probability &amp; distribution theory</td>
<td>☑ (E)</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td><strong>Semester 1 – Year 2</strong></td>
<td></td>
<td></td>
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<tr>
<td>EPM5003 Principles of statistical inference</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>EPM5005 Data management &amp; statistical computing</td>
<td>☑</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>EPM5004 Linear models</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>EPM5009 Categorical data &amp; generalized linear models</td>
<td>☑</td>
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<tr>
<td><strong>Semester 1 – Year 3</strong></td>
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<tr>
<td>EPM5010 Survival analysis</td>
<td>☑</td>
<td>☑</td>
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</tr>
<tr>
<td>One of either EPM5011 or EPM5015 must be chosen.</td>
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<tr>
<td>EPM5011 Practical project (Full-year)</td>
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<td>☑</td>
<td>☑</td>
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<tr>
<td>EPM5015 Practical project (single unit)</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td><strong>Elective units</strong></td>
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<tr>
<td><strong>Semester 1</strong></td>
<td></td>
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<tr>
<td>EPM5001 Health indicators &amp; health surveys</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>EPM5006 Clinical biostatistics</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>EPM5008 Longitudinal &amp; correlated data</td>
<td>☑</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>EPM5012 Bioinformatics</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>EPM5013 Bayesian statistical methods</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>EPM5014 Probability &amp; distribution theory</td>
<td>☑</td>
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</tr>
</tbody>
</table>

**NOTE:**

(E) = Elective

* Students must complete compulsory unit block attendance.

**Timetable and Venue:**

www.med.monash.edu.au/epidemiology/pgrad

**Further information**

Course coordinator: Professor Andrew Forbes

E: andrew.forbes@monash.edu


BCA = www.bca.edu.au
Clinical Research Methods

Master
Graduate Diploma
Graduate Certificate

Master of Clinical Research Methods
Course code: 2311
CRICOS code: 072000D
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 3 years;
Full-time: 1.5 years
Course structure:
9 core units + 3 elective units

Graduate Diploma in Clinical Research Methods
Course code: 0702
CRICOS code: 079103G
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 2 years;
Full-time: 1 year
Course structure:
7 core units + 1 elective unit

Graduate Certificate in Clinical Research Methods
Course code: 3416
CRICOS code: n/a
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 1 year;
Full-time: n/a
Course structure:
4 core units

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/

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.

Pathway to PhD
Students who successfully complete the MCRM including a Distinction average in units MPH5207, MPH5200, MPH5270, MPH5237 and MPH5239 may qualify for entry into a PhD.

Students who successfully complete the MCRM including the 12 credit point project, units: MPH5231 & MPH5232 and achieve a Distinction average in units: MPH5207, MPH5200, MPH5270, MPH5237 may qualify for entry into a PhD.

Further information is available at: www.monash.edu.au/migr/apply/eligibility/equivalence/index.html
### Clinical Research Methods

<table>
<thead>
<tr>
<th>Core units</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1 – Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5040 Introductory epidemiology</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>MPH5041 Introductory biostatistics</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>MPH5213 Research methods</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>MPH5283 Ethics, good research practice &amp; practical research skills</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td><strong>Semester 1 – Year 2</strong></td>
<td></td>
<td></td>
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<tr>
<td>MPH5237 Clinical measurement</td>
<td></td>
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<td>★</td>
</tr>
<tr>
<td>Elective</td>
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<td>(E)</td>
<td>(E)</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>MPH5236 Clinical trials</td>
<td></td>
<td></td>
<td>★</td>
</tr>
<tr>
<td>MPH5239 Systematic reviews &amp; meta-analysis</td>
<td></td>
<td></td>
<td>★</td>
</tr>
<tr>
<td><strong>Semester 1 – Year 3</strong></td>
<td></td>
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<tr>
<td>MPH5200 Regression methods for epidemiology</td>
<td></td>
<td></td>
<td>★</td>
</tr>
<tr>
<td>MPH5202 Clinical epidemiology</td>
<td></td>
<td></td>
<td>★</td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
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<tr>
<td>Elective x 2</td>
<td></td>
<td></td>
<td>(E)</td>
</tr>
</tbody>
</table>

| Elective units | | | |
| MPH5207 Chronic diseases: epidemiology & prevention | | | ★ |
| MPH5218 Infectious diseases: epidemiology & prevention | | | ★ |
| MPH5256 Injury epidemiology & prevention | | | ★ |
| MPH5270 Advanced statistical methods for clinical research | | | ★ |
| MPH5277 Data management & computing (not offered in 2016) | | | ★ |
| MAP4200 Improving Indigenous equity in professional practice | | | ★ |
| 12 credit point project, units: MPH5231 Research design & project proposal and MPH5232 Research conduct analysis, write-up & submission (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 and Venue:**
www.med.monash.edu.au/epidemiology/pgrad

W: Census dates & Teaching Periods –
www.monash.edu.au/enrolments/dates/census.html

---

### Further information

Course coordinator:
Dr Sylvia Pomeroy

E: sylvia.pomeroy@monash.edu

Health Services Management

Master
Graduate Diploma
Graduate Certificate

Master of Health Services Management
(Multi-modal)

Course code: 2872
CRICOS code: 038564F
Study mode:
Domestic students: Multi-modal + block requirements
International students:
On-campus
Study length:
Part-time: 3 years; Full-time: 1.5 years
Course structure:
8 core units + 3 elective units

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.

Graduate Diploma in Health Services Management

Course code: 2314
CRICOS code: 037848B
Study mode:
Domestic students: Multi-modal + block requirements
International students:
On-campus
Study length:
Part-time: 2 years; Full-time: 1 year
Course structure:
7 core units + 1 elective unit

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.

Graduate Certificate in Health Services Management

Course code: 2870
CRICOS code: n/a
Study mode:
Domestic students: Multi-modal + block requirements
International students:
On-campus
Study length:
Part-time: 1 year; Full-time: n/a
Course structure:
2 core units + 2 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.

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 Australasian College of Medical Administrators (RACMA) Fellowship providing students have completed units: MPH5040 Introductory Epidemiology, MPH5041 Introductory Biostatistics, MPH5213 Research Methods and MPH5283 Ethics, good research practice & practical research skills.

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 should have an undergraduate degree in an appropriate discipline and relevant professional experience.

International Entry Requirements refer to: www.monash.edu.au/international/
## Health Services Management (Multi-modal)

### Core units – NOTE: To satisfy the requirements for the RACMA Fellowship core units required are: MPH5040, MPH5041, MPH5213 and MPH5283.

<table>
<thead>
<tr>
<th>Semester 1 – Year 1</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5266 Clinical leadership &amp; management</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>MPH5268 Financial issues in health care management</td>
<td>■</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5020 Introduction to epidemiology &amp; biostatistics</td>
</tr>
<tr>
<td>MPH5267 Principles of health care quality improvement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 1 – Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5269 Foundations of health policy</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5265 Law for health systems</td>
</tr>
<tr>
<td>MPH5272 Reform &amp; development of health services</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 1 – Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5273 HSM case study</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>MPH5273 HSM case study</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

### Elective units

<p>| |</p>
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>MPH5285 Human factors for patient safety</td>
</tr>
<tr>
<td>MPH5286 Applying &amp; practicing the principles of patient safety quality improvement</td>
</tr>
<tr>
<td>MPH5042 Climate change &amp; public health</td>
</tr>
<tr>
<td>ECCS970 Introduction to health economics</td>
</tr>
<tr>
<td>GHS5850 Nursing practice &amp; management</td>
</tr>
<tr>
<td>NUR5315 Advanced Nursing Practice in Context</td>
</tr>
<tr>
<td>MAP4200 Improving Indigenous equity in professional practice</td>
</tr>
<tr>
<td>MPH code approved units (except units: MPH5020, MPH5301-5313)</td>
</tr>
</tbody>
</table>

**NOTE:**

(E) = Elective

MPH5020 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 and Venue:**

www.med.monash.edu.au/epidemiology/grad/


### Further information

**Course coordinator:**

Professor Just Stoelwinder

E: just.stoelwinder@monash.edu

Health Services Management

Postgraduate Courses 2016

Master

Master of Health Administration (Online)

Course code: 4528
Study mode: Online
Study length:
Part-time: 4 years;
Full-time: 2 years
Course structure:
12 core units

The course aims to provide the academic preparation for managers in health care and public health and those that aspire to such a career. This includes managers in the broad range of health care organisations from central agencies, health insurers, non-government organisations and the various health provider organisations. It involves structured learning in the key management disciplines including policy, organisational theory, financial management, human resources management, economics and marketing, with an emphasis on health care organisations and specific health-focused domains such as epidemiology, biostatistics and managing the patient care process.

The course adopts an adult learning approach, encouraging self-directed learning, independent research and enquiry, reflection from practice, and peer learning with guidance from experienced academics in their respective fields.

Entry requirement
Applicants must have an undergraduate degree in a relevant or related discipline e.g. health sciences, business, commerce, economics, law and a minimum of 2 years professional experience.

International Entry requirement refer to: www.monash.edu.au/international/

Assessment
Assessment includes web-based tasks, written exercises, assignments and examinations.

Professional recognition
The program is accredited by The Australasian College of Health Service Management (ACHSM) for College entry and advancement purposes.

Further information
E: admissions.online@monash.edu
W: www.monash.edu.au/study/coursefinder/course/4529/
These units are run in a carousel model and are only offered once every 24 months in a teaching period consisting of six weeks. These units are not interchangeable with our multi-modal MHS M course code: 2872.

NOTE: Medical students working towards The Royal Australasian College of Medical Administrator’s Fellowship should check specific units required.

<table>
<thead>
<tr>
<th>TP/Year</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td></td>
</tr>
<tr>
<td>1/2016</td>
<td>MPH5308 Developing health systems</td>
</tr>
<tr>
<td>2/2016</td>
<td>MPH5312 Advances in managing patient care processes</td>
</tr>
<tr>
<td>3/2016</td>
<td>MGF5963 Introduction to management</td>
</tr>
<tr>
<td>4/2016</td>
<td>MPH5301 Health systems and policy</td>
</tr>
<tr>
<td>5/2016</td>
<td>MPH5302 Biostatistics: concepts and applications</td>
</tr>
<tr>
<td>6/2016</td>
<td>MKF5505 Marketing for healthcare managers</td>
</tr>
<tr>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>1/2017</td>
<td>MPH5304 Leading and managing in public health and health care</td>
</tr>
<tr>
<td>2/2017</td>
<td>MPH5305 Epidemiology: concepts and applications</td>
</tr>
<tr>
<td>3/2017</td>
<td>ECC5979 Health economics</td>
</tr>
<tr>
<td>4/2017</td>
<td>MPH5311 Safety and quality in health care</td>
</tr>
<tr>
<td>5/2017</td>
<td>MPH5307 Introduction to health law principles</td>
</tr>
<tr>
<td>6/2017</td>
<td>ACF5268 Accounting for healthcare managers</td>
</tr>
</tbody>
</table>
International Health

Master
Graduate Diploma

Master of International Health

Course code: 3874
CRICOS code: 054588J
Study mode:
Domestic students: Multi-modal + block or partial block
International students: On-campus
Study length:
Part-time: 3 years;
Full-time: 1.5 years
Course structure:
5–6 core units +
6–7 elective units

Graduate Diploma in International Health

Course code: 1884
CRICOS code: 030778A
Study mode:
Domestic students: Multi-modal + block or partial block
International students: On-campus
Study length:
Part-time: 2 years;
Full-time: 1 year
Course structure:
3–4 core units +
4–5 elective units

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 resource-constrained settings, especially relevant to countries in Asia, the Pacific and sub-Saharan Africa. 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/

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.
## International Health

### Core units

<table>
<thead>
<tr>
<th>Semester 1 – Year 1</th>
<th>Graduate Diploma</th>
<th>Masters</th>
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</thead>
<tbody>
<tr>
<td>MPH5040 + MPH5041</td>
<td>(NOTE: Students undertaking a research project or transferring to the MPH course MUST have core prerequisite units: MPH5040 and MPH5041)</td>
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<tr>
<td>MPH5020 Introduction to epidemiology &amp; preventive medicine OR</td>
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<tr>
<td>MPH5040 Introductory epidemiology# AND</td>
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<tr>
<td>MPH5041 Introductory biostatistics#</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>MPH5248 Primary health care &amp; global health</td>
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<tr>
<td>MPH5249 Field methods for international health</td>
<td></td>
<td></td>
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<tr>
<td>Semester 1 – Year 2</td>
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<tr>
<td>MPH5255 Health and human rights</td>
<td>(E)</td>
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<tr>
<td>Elective</td>
<td>(E)</td>
<td>(E)</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>EPM5023 Ethical issues in international health and research</td>
<td>(E)</td>
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<tr>
<td>Elective</td>
<td>(E)</td>
<td>(E)</td>
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<tr>
<td>Semester 1 – Year 3</td>
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<tr>
<td>Elective x 2</td>
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<td>Semester 2</td>
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<tr>
<td>Elective x 2</td>
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</table>

### Elective units

| MPH5250 Women’s & children’s health: a global perspective |
| MPH5251 Infectious diseases and global health |
| MPH5253 Public health in refugee settings |
| MPH5254 Nutrition in developing countries |
| MPH5255 Health and human rights |
| MPH5258 Effective responses to HIV in developing countries |
| MPH5282 Health communication & training |
| MPH5287 Alcohol & other drugs in society: a national & global perspective |
| ECCS9755 Principles of health economics for developing countries |

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**NOTE:**

(E) = Elective
Available in on and off-campus mode

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 and Venue:**


**W:** Census dates & Teaching Periods –

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### Further information

Course coordinator: Associate Professor Bebe Loff

E: bebe.lof@monash.edu

Occupational and Environmental Health

Master
Graduate Diploma
Graduate Certificate

Master of Occupational & Environmental Health

Course code: 2312
CRICOS code: 028957E
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 3 years;
Full-time: 1.5 years
Course structure:
10 core units + 2 elective units

Graduate Diploma in Occupational & Environmental Health

Course code: 0160
CRICOS code: 037584D
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 2 years;
Full-time: 1 year
Course structure:
8 core units

Graduate Certificate in Occupational Health

Course code: 2868
CRICOS code: n/a
Study mode:
Domestic students: Multi-modal + compulsory block requirements
International students: On-campus
Study length:
Part-time: 1 year;
Full-time: n/a
Course structure:
4 core units

The Masters program aims to provide you with skills to practice quality occupational health and safety services; identify and manage occupational and environmental health risks, and assist to systematically control related hazards and exposures, within a broad range of workplace and community environments. It aims to enable you to take responsibility for high level independent judgements, and initiate, implement and evaluate risk management interventions within varied occupational and environmental contexts. The Masters is applicable to medical practitioners, nurses, allied health professionals, scientists or OHS managers wishing to further develop their skills as autonomous, responsible and accountable OHS and environmental health practitioners.

The Graduate Diploma aims to give you the knowledge and skills, autonomy and judgement to responsibly provide preventive health services to both reduce the health impacts of disease and injury, and assist to systematically address hazards arising from workplaces and within communities. The diploma is applicable to medical practitioners, nurses, allied health professionals, scientists or OHS managers wishing to develop adaptable and responsible skills as OHS and environmental health practitioners.

The Graduate Certificate provides a program for professionals in the workplace who wish to expand their knowledge and skills in preventive occupational health practice. It provides the basic knowledge in legal occupational health and safety requirements and competence in assessing and controlling workplace hazards.

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/

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 Master of Occupational and Environmental Health are accredited by Australian OHS Education Board. The Graduate Diploma and Masters are also recognised by AFOEM and RACGP points can be applied for annually.

Career fields
Occupational Medicine, Nursing or Management positions within industry, government or independent Professional Practice.
## Occupational & Environmental Health

### Core units

<table>
<thead>
<tr>
<th>Semester 1 – Year 1</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
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</thead>
<tbody>
<tr>
<td>MPH5241 Introduction to occupational health &amp; safety</td>
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<tr>
<td>MPH5243 Chemical &amp; biological hazards</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>MPH5222 Assessment &amp; control of workplace hazards</td>
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<tr>
<td>MPH5244 Ergonomic &amp; physical hazards</td>
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<table>
<thead>
<tr>
<th>Semester 1 – Year 2</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
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<tbody>
<tr>
<td>MPH5242 Psychosocial work environment</td>
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<tr>
<td>MPH5040 Introductory epidemiology#</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>MPH5203 Environmental influences on health</td>
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<td>MPH5276 Safety management systems</td>
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<table>
<thead>
<tr>
<th>Semester 1 – Year 3</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
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</thead>
<tbody>
<tr>
<td>MPH5041 Introductory biostatistics#</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Masters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives x 2</td>
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### Elective units

| MPH5213 Research methods# (This is a pre-requisite unit for projects units: MPH5232 and MPH5231) | | | |
| MPH5256 Injury epidemiology & prevention (next offered in 2016) | | | |
| MPH5042 Climate change & public health | | | |
| BTF5910 Sustainability regulation | | | |
| 12 credit point project, units: MPH5231 Research design & project proposal and MPH5232 Research conduct analysis, write-up & submission (7,000–8,000 words) – prerequisites and Course Coordinator's approval required. Student must 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 (except MPH5020, MPH5301-5314) | | | |

### NOTE:

- Students must complete compulsory unit block attendance.
- # 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 and Venue:**
www.med.monash.edu.au/epidemiology/pgrad/

**W:** Census dates & Teaching Periods – http://www.monash.edu.au/enrolments/dates/census.html

### Further information

**Course coordinator:**
Professor Malcolm Sim

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

**W:** www.monash.edu.au/pubs/handbooks/
Postgraduate Teaching Staff
Leaders in their field

Contact details available on: www.med.monash.edu.au/epidemiology/pgrad/

Dr G BENKE
BSc, MAppSci, GDipQuanMeth, PhD, MAIP, MAAS, FAIOH
Senior Research Fellow
- Extensive experience as an occupational hygienist in industry and research. He has been involved in the Healthwise study, Lead and Cancer study, Morpheus study, INTEROC study and the ECRHS study.
- In 2008 Geza was President of the Australian Institute of Occupational Hygienists.
- Research interests include occupational/environmental epidemiology exposure assessment, exposure assessment methodology, occupational cancer and respiratory epidemiology.

Dr B BILLAH
BSc(Hons), MSc, MAS, PhD
Senior Lecturer
- His research interests include Risk Modelling (e.g. mortality risk), Modelling for comparison of Institutional Performance (e.g. hospital/surgeon performance in cardiac surgery), Statistical Inference, Prediction and Model Selection among others.
- He is a chief biostatistician and consultant in a number of research projects in Australia and particularly in the Department of Epidemiology and Preventive Medicine.
- Recently, Baki has developed AusSCORE Model that would help to appropriately guide Australian Cardiac Surgeons and patients in assessing preoperative Risk of cardiac mortality.

Dr L BISHOP
BA, LLB PhD
Lecturer
- A Research Governance Officer with SPHPM.
- Research interests include medical law and ethics, women and children’s rights.
- The convenor of the Haemophilia Auxiliary of the Royal Children’s Hospital, a Founding Member and former Convenor of Victorian Women Lawyers and member and former Board Member of Australia Women Lawyers.

Professor R BUCHINDER
MBBS (Hons) (Monash), MSc (Toronto), PhD (Monash), FRACP
Director Monash Department of Clinical Epidemiology, Cabrini Hospital
- An Australian NHMRC Practitioner Fellow.
- A rheumatologist and clinical epidemiologist who combines clinical practice with research in a wide range of multidisciplinary projects relating to arthritis and musculoskeletal conditions.
- Joint Coordinating Editor of the Cochrane Musculoskeletal Group and chairs the Australian Rheumatology Association Database (ARAD) Management Committee.

Professor F Cicuttini
MBBS(Hons), PhD, MSc, DHTM, FRACP, FAFPHM
Head, Musculoskeletal Unit DEPM
Head Rheumatology Unit, Alfred Hospital
Postgraduate Courses Coordinator
- Current research includes using Magnetic Resonance Imaging to understand factors that affect joint cartilage in healthy and diseased states.
- Current advisory panel membership includes NHMRC Research Fellowships Advisory Panel, Royal Australasian College of Physicians Research Advisory Committee and Jacquot Selection Committee, RACP, and OARSI study group on osteoarthritis of the hand.

Associate Professor S EVANS
BN, MCE, PhD
Head, Clinical Registry Unit
Lecturer and Senior Research Fellow
- Associate Director, NHMRC CRE in Patient Safety.
- Data custodian for the Australian Prostate Cancer Clinical Registry.
- 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.

Professor A Forbes
BSc(Hons), MSc, PhD
Head, Research Methodology Division
Head, Biostatistics Unit
Course coordinator Biostatistics Consortium Australia
- Research interests include development of analytical methods for interrupted time series designs, the application of causal modelling principles to practical problems, and latent variable methods.
- Provides statistical consulting within the Faculty of Medicine, its affiliated institutes, and for external bodies.
Professor B Gabbe
BPhys(Hons), MBiostats, MAppSc, PhD
Head, Emergency & Trauma Research Unit
Lecturer and Senior Research Fellow
• An injury epidemiologist with a clinical background in physiotherapy.
• A Chief Investigator of the Victorian State Trauma Registry, Victorian Orthopaedic Trauma Outcomes Registry, and the Bi-National Burns Registry.
• Her research focuses on the evaluation of trauma systems, trauma system improvements and measuring the burden of injury. A particular research focus is quantifying the outcomes of non-fatal injury and improving measurement of non-fatal injury burden.

Associate Professor D Glass
MA, MSc, PhD, DipOccHyg
Associate Professor (Research)
• 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, Australian Firefighters’ Health Study, OcciDEAS.
• 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
BSocSc(Hons), MBBS, DipRACOG, MPH, FRAcMA, FAPPH, MASM, FPHAA
Senior Research Fellow / Lecturer
• 35 years public health experience, at Domestic, 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 C Hodgson
BAppSc(Physio), PGDip(Cardio), MResearch, PhD, FACP
Senior Research Fellow
• Senior Research Fellow at the ANZIC-RC leading programs of research in early rehabilitation in intensive care (TEAM) and recovery following critical illness (ICU Recovery).
• Research interests include; ARDS, mechanical ventilation, extracorporeal membrane oxygenation (ECMO), ICU acquired weakness, early rehabilitation and long-term outcomes of ICU survivors.

Professor J Ibrahim
MBBS, GradCert HE, PhD, FAPPH, FRACP
Senior Lecturer
• Consultant Physician in Geriatric Medicine, in active clinical practice.
• Education and research member of the Centre of Research Excellence in Patient Safety; DEPM Monash University.
• Education and research member of the Department of Forensic Medicine, Victorian Institute of Forensic Medicine, Monash University.
• Adjunct Professor, Australian Centre for Evidence Based Aged Care at La Trobe University.
• Research interests in quality of clinical care, performance measurement, medico-legal death investigation and patient safety.

Associate Professor D Illic
BSc, GDipRepSci, MRepSci, PhD, GHPE
Head, Medical Education Research & Quality (MERQ) Unit
Senior Lecturer and Research Fellow
• Coordinates Evidence Based Clinical Practice curriculum for the MBBS degree.
• Course coordinator, Bachelor of Health Science.
• Research interest in male reproductive health issues.

Dr T Keegel
BA(Hons), GradDipEpiBio, MA, PhD
Lecturer
• An occupational epidemiologist with expertise in the analysis of large datasets and the use of administrative data for research purposes.
• Research interests include the psychosocial work environment, work, gender and health, workers’ compensation systems, and work and health policy and practice.
Dr H KELSALL
MBBS, MPH, MHlthSc(PHP), PhD, FAFPHM
Senior Lecturer and Research Fellow, MonCOEH
• Course coordinator, MPH multi-modal program.
• Active in public health capacity building and research training, supervising doctoral students and visiting overseas academics.
• Research interests include military and veterans’ health, epidemiological research, public health medicine and training, and injury prevention.

Mrs E KENNEDY
BA, LLB(Hons), LLM(Melb), GradDipHealth & Medical Law
Senior Lecturer
• Currently General Counsel and Corporate Secretary of Peter MacCallum Cancer Centre.
• Past appointments: Corporate Counsel at Epworth HealthCare, 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.
• Chair of the Appeals Committee, The Royal Australian and New Zealand College of Obstetricians and Gynaecologists and the Royal Australasian College of Surgeons.

Professor K LEDER
MBBS (Hons), FRACP, MPH, PhD
Head, Infectious Disease Epidemiology Unit
• Visiting specialist physician at the Royal Melbourne Hospital.
• Research interests include: traveller’s health, health issues in immigrants and refugees, and waterborne infections.

Associate Professor B LOFF
BA, LLB, MA (Medical Law & Ethics), PhD
Head, Human Rights & Bioethics Unit
Course Coordinator:
Master of International Health
Senior Lecturer and 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 M LUBLINER
BMedSc(Hons), MBBS, MBA, FRACMA
Senior Lecturer
• Group Director Medical Services, St John of God Health Care.
• Extensive medical and health administrative experience, most recently in planning and strategy with Cabrini Health; previous positions in the UK and The Alfred Hospital, Melbourne.
• Areas of interest include: clinical governance, medical leadership, strategic planning and service redesign.

Dr E MacFarlane
BSc, MPH, PhD
Research Fellow
• An occupational epidemiologist with expertise in occupational exposure assessment in a wide variety of research activities covering a diversity of Australian industries.
• With methodological expertise in longitudinal research, cohort studies, nested case-control studies, disease surveillance programs, large datasets and the use of pre-existing data to answer new research questions. He also has considerable experience in record linkage of large datasets and registries.
• Research interests include occupational injury, agricultural health, pesticides and other chemical exposures, psychosocial exposures, asbestos and mesothelioma.

Associate Professor D Magliano
BAppSc(Hons), PhD
Senior Epidemiologist
Lecturer
• Holds a part-time position at Monash University and works as a senior epidemiologist at the Baker IDI Heart and Diabetes Institute.
• Research interests include diabetes and cardiovascular disease.
• Her current project involves preparing a proposal for a study of cardiovascular disease in elderly Victorians.
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
BEC, MEc
Senior Lecturer
- Director, KMC Health Care
- Current research interest in economic evaluations and pharmaceutical markets.

Dr A OWEN
BSc (Hons) PhD
Senior Research Fellow / Lecturer
- Areas of research interest: cardiovascular effects of long chain omega-3 fats, epidemiological modelling and community strategies for blood pressure control.
- Senior investigator of the ASPREE Longitudinal Study of Older Persons (ALSOP).

Dr S POMEROY
BSc, DIT, MPH, Postgrad Dip Teaching, PhD
Course Coordinator
Unit Coordinator and Lecturer
MPHS202 Clinical Epidemiology
- Past appointments: Alfred Hospital, Baker Heart Research Institute, National Heart Foundation, Cancer Council Victoria.
- Has a lecturing role across a range of units: Evidence Based clinical Practice; Research Methods; Data Evidence, Critical Thinking in Health; Principles of Health Care Quality and Improvement.
- Currently working on a research project which aims to position male health in Australian undergraduate and graduate medical curricula.
- Areas of interest: design and implementation of evidence informed medical education.

Associate Professor B SMITH
BSW(Hons), MPH, PhD
Senior Lecturer
- Background in community development, 15 years of experience as a health promotion practitioner and evaluator, worked in regional health services and Domestic government and as a consultant for State and Commonwealth Governments in Australia, UNICEF and the World Health Organization.
- Research interests: measurement of health risk factors and determinants; the role of the mass media in health promotion; design of chronic disease prevention strategies for health care settings.
- A member of the Editorial Board of the Health Promotion Journal of Australia, and has work published globally.

Professor J STOELWINDER
MBBS, MD, FRACP, FRACMA, FACHSE, FAFPHM
Chair, Health Services Management, Head, Health Services Management & Global Health Research / Course Coordinator
- Past appointments: Include CEO of the Southern Health Care Network for over 16 years. He’s 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
Senior 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.

Associate Professor A WLUKA
MBBS, FRACP, PhD, Grad CertHealthEcon
Senior Research Fellow
- Consultant Rheumatologist Alfred Hospital.
- Research interests: Osteoarthritis and prediction of disease.

Professor R WOLFE
BSc, PhD
Biostatistician
- Provides statistical support for a wide range of epidemiological and clinical research studies.
- Undertakes statistical methodological research.
Dr B Coghlan  
MBBS, MPH&TM, MAppEpid, FAFPHM  
Adjunct Senior Lecturer  
- Medical Health Physician / Medical epidemiologist.  
- Extensive field experience in Africa, Asia and the Pacific in both complex humanitarian emergencies and development settings  
- Interests include communicable disease control including emerging and re-emerging infectious diseases, surveillance, refugee health, nutrition, and applied research.

Mr G CHAN  
Adjunct Lecturer  
MPH, GradDip Education, BA (Hons Italian)  
- International Health and Development officer.  
- From 2011 to 2013 based in Papua New Guinea, working on a range of Burnet projects including the East New Britain Sexual Health Improvement Project and Home Based Malaria Management.  
- Geoff has strong practical experience in health programming and implementation in developing contexts, including training and capacity building approaches.

Ms L DAVIDSON  
RN, MPH  
Adjunct Lecturer  
- Sexual and Reproductive Health Specialist.  
- 19 years’ experience in international health and development with a particular focus on community health programming, child welfare & social development, in the fields of HIV & AIDS, TB and Malaria.  
- Strong technical background in health, coupled with a comprehensive understanding and practical experience in health programming in a development context.

Dr P Higgs  
BSW, MA, PhD  
Adjunct 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.

Mr C HUGHES  
BSc (Biomed), MPH  
Adjunct Lecturer  
- A public health practitioner with specific expertise and interest in strategic planning for responding to the HIV epidemic, scaling up interventions and monitoring and evaluating programs.  
- Leads the Centre for International Health’s portfolio of programs relating to HIV, and harm reduction programs for people who use alcohol and other drugs.

Dr E Kennedy  
MBBS, MPH  
Adjunct Senior Lecturer  
- Women’s and Children’s Health Specialist and Principal for Maternal & Child Health at Centre for International Health, Burnet Institute.  
- Public health and research interests in sexual and reproductive health, family planning and adolescent health.  
- Ten years of experience working in women’s and children’s health programs as clinician, public health practitioner and researcher in Africa, the Pacific and Asia.

Dr S MAJUMDAR  
MBBS, MPH&TM, MRCP, FRACP  
Adjunct Lecturer  
- Infectious Diseases Specialist at the Centre for International Health, Burnet Institute  
- Physician, public health practitioner and researcher with focused skills in the clinical and programmatic management of TB/drug-resistant TB, HIV medicine, training healthcare workers and operational / implementation research.  
- Field experience implementing TB/HIV and global health programs in PNG, Myanmar, Timor-Leste, China, India, Mexico, Swaziland and regions of the former Soviet Union.

Dr C MORGAN  
MBBS, DTCH, FRACP  
Adjunct Senior Lecturer  
- Principal Fellow, Centre for International Health.  
- Research interests in health care delivery systems, maternal and newborn health, immunisation services, health worker education, evidence-informed health policy and aid effectiveness.  
- Substantial years of field experience from life and work in Nepal, China (Tibet), Papua New Guinea, Myanmar and elsewhere in Asia and the Pacific, coupled with advisory work for the WHO.

Dr M REEVE  
MBBS (Hons), MPH  
Adjunct Lecturer  
- Senior Project Officer at the Nossal Institute for Global Health with a focus on primary health care, monitoring and evaluation, harm reduction and maternal and child health  
- Field experience from living and working in Pakistan, Northeast India, Kenya and Bangladesh  
- Also teaches and coordinates “Primary Health Care in Jamkhed, India”
Ms L RENKIN  
BA, MPH, Cert IV in Training and Assessment  
Adjunct Senior Lecturer  
- International HIV expert with field experience in Eritrea, Ethiopia, South Africa, Togo, Ghana, DRC, China, Indonesia and PNG.  
- Expertise in designing, managing and evaluating health systems strengthening, capacity building, HIV testing and counselling programs.  
- Strong interest in qualitative research methods.

Dr T STEWART  
MBBS, MAppEpi, FAFPHM, FACTM  
Adjunct Senior 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  
Deputy Director, Burnet Institute  
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. Centers 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.
Units 2016

These descriptions provide a brief listing of units; detailed information is available at: www.monash.edu.au/pubs/handbooks/

DPH6005
Public Health Practice

Lecturers: 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 academic staff.

ECC5970
Introduction to health economics

Lecturer: Dr A Suziedelyte
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1

Synopsis: This unit provides an understanding of the microeconomic approach to resource allocation, both in general and specifically, in relation to the health sector. It introduces students to the use of economic tools in the analysis of the ‘market’ for health care, in terms of efficiency and equity. It also provides an analytical framework for assessment of the Australian health care system, and health policy generally, from an economic perspective.

ECC5971
Pharmaceutical economics

Lecturers: Dr S Zavarsek
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.

ECC5973
Economic evaluation in health care

Lecturers: Associate Professor D Mortimer
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 2

Synopsis: This unit introduces students to techniques of microeconomic appraisal in the evaluation of health care programs. It considers conceptual and methodological issues, as well as the practical conduct, and review, of such studies and their use in priority setting within the health care sector. The application of decision rules for economic efficiency in health program evaluation and their influence on policy decisions are introduced.

ECC5974
Applied health economics and health policy

Lecturer: Dr Y Gu
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 2
Prerequisite: ECC5970 or ECX9700

Synopsis: This unit synthesizes contemporary issues in health policy, building on the fundamental economic concepts, including economic efficiency and equity, learned in the first level introductory unit. It is aimed at further developing the core concepts of efficiency and equity, and the application of contemporary health care issues. The unit is organised around three themes: the role of government in the health care system; government regulation in the organisation and delivery of health care services and incentives for equity and efficiency; and the use of economic principles to analyse and develop policy options in health care.

ECC5975
Principles of health economics for developing countries

Lecturer: Associate Professor P 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.

EPM5001
Health indicators & health surveys

Lecturer: Professor J Simpson
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1
Corequisite: MPH5040

EPM5002
Mathematical background for biostatistics
Lecturer: Professor G Glonek / Dr M Manuguerra
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1 or 2
For Biostatistics course enrolled students only:
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.

EPM5003
Principles of statistical inference
Lecturer: Dr R O’Connell / Dr P Kelly
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:

EPM5004
Linear models
Lecturers: Professors A Forbes & J Carlin
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1 or 2
Prerequisites: MPH5040, EPM5002 & EPM5014
Corequisite: EPM5003
For Biostatistics course enrolled students only:

EPM5005
Data management & statistical computing
Lecturer: A/Prof P McElduff / Dr H Romanuk
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1 or 2
For Biostatistics course enrolled students only:
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.

EPM5006
Clinical biostatistics
Lecturer: Professor A Dobson / Dr M Jones
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 1
Prerequisites: MPH5040, EPM5002, EPM5003, EPM5007 & EPM5014
Corequisite: EPM5004
For Biostatistics course enrolled students only:

EPM5007
Design of experiments & clinical trials
Lecturer: Dr L Yellandr
Points: 6
Mode of study: 12 hours per week + Off-Campus Learning
Semester: 2
Prerequisites: EPM5002 & MPH5040
For Biostatistics course enrolled students only:
Synopsis: This unit will introduce randomised comparisons as a major tool used in medical research & basis of providing evidence for improving clinical practice. By developing problems based on clinical questions, the need & value of different experimental designs will be introduced and expanded. Within this context, issues with regards to randomisation, ethical issues, clinical study design & analysis interpretation will be developed, as will selection of outcome variables, surrogate endpoints and dealing with missing data. Efficiency issues such as sample size & power will be introduced at appropriate points in the unit.
**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:** MPH5040, 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.

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**EPM5010**  
**Survival analysis**

**Lecturer:** Dr K Beath  
**Points:** 6  
**Mode of study:** 12 hours per week  
+ Off-Campus Learning  
**Semester:** 1  
**Prerequisites:** MPH5040, 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.

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**EPM5003**  
**Categorical data & generalised linear models**

**Lecturer:** Professor A Dobson / Dr M Jones  
**Points:** 6  
**Mode of study:** 12 hours per week  
+ Off-Campus Learning  
**Semester:** 2  
**Prerequisites:** MPH5040, 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.

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**EPM5012**  
**Bioinformatics**

**Lecturer:** Dr N Armstrong  
**Points:** 6  
**Mode of study:** 12 hours per week  
+ Off-Campus Learning  
**Semester:** 2  
**Prerequisites:** MPH5040, 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 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.

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**EPM5013**  
**Bayesian statistical methods**

**Lecturer:** Professor L Gurrin  
**Points:** 6  
**Mode of study:** 12 hours per week  
+ Off-Campus Learning  
**Semester:** 2  
**Prerequisites:** MPH5040, 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.

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**EPM5002**  
**Probability and distribution theory**

**Lecturer:** 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.
Synopsis: This unit examines the colonial history of and contemporary ethical issues that pervade international health. It builds awareness of critical ethical issues in international health and research. A range of topics are considered including the geopolitical purposes served by international health research, the 10/90 disequilibrium, the relationship between research parties including host and sponsor countries, multilateral organisations, pharmaceutical companies, communities and research participants. The rules guiding research and essential components of ethical review process are examined. Issues of justice emerge as critical in this context.

GHS5850
Nursing leadership and management
Lecturer: Ms I Brooks
Points: 12
Mode of study: Flexible
Semester: 1
Campus: Clayton
Synopsis: The unit gives nursing graduates a program which combines a strong theoretical and practical focus to health management and leadership. Topics on management and administration include: power, authority and politics; leadership; people in health service organisations; change and organisational effectiveness; quality improvement; governance and clinical risk management.

HSC5002
Foundations of health promotion and program planning
Lecturers: Associate Professor B Smith
Points: 6
Mode of study: Off-Campus Learning + non-compulsory 2 day block
Semester: 1
Campus: Alfred
Synopsis: This unit provides opportunities to examine the impact of multiple factors that contribute to the health of populations, known collectively as the social determinants of health, and to develop knowledge and skills in program planning for health promotion. Students will examine the values and principles that guide contemporary health promotion and its capacity to influence the determinants of health. They will develop skills in needs assessment, priority setting, designating targets for change, using evidence and theory to make intervention choices and establishing systems for program management. The roles played by partnerships, capacity building and participation will be explored, and the steps toward improving program sustainability examined. Attention will be given to the opportunities and challenges presented in different organisational settings and social and cultural contexts.

HSC5022
Evaluating public health programs
Lecturer: Associate Professor B Smith
Points: 6
Mode of study: Off-Campus Learning + non-compulsory 2 block days
Semester: 2
Campus: Alfred
Synopsis: Program evaluation can provide valuable evidence to improve the delivery, reach and impact of public health strategies. This unit will equip students with skills to evaluate disease prevention and health promotion strategies using a range of methodologies. Levels of evaluation will be examined; including formative, process, impact and outcome evaluation, and the range of qualitative and quantitative methods suitable for answering different evaluation questions will be identified. The complementary roles of different methodologies will be highlighted, with consideration given to approaches that will facilitate learning for practice. There will be exploration and discussion of the evaluation challenges posed by the complexities of public health action and the contexts in which it is carried out.

MAP4200
Improving Indigenous equity in professional practice
Lecturer: Associate Professor K Adams
Points: 6
Mode of study: Online
Semester: 1
Synopsis: This unit develops and strengthens practical skills required for implementing Indigenous equity. Delivery of effective, high standard services to Indigenous people is one of the enduring challenges facing a variety organisations and providers. In this unit students will explore and engage in practical skills of: cultural safety; partnership building; organisational development and analysis of the strengths based evidence. Students will be provided opportunity to critically analyse current practices in Indigenous equity, design evidence based advocacy and create a strategic change plan of relevance to their professional work and aspirations.
MPH5020
Introduction to epidemiology & biostatistics

Lecturer: Dr M Davies
Points: 6
Mode of study: Off-Campus Learning + non-compulsory 2 block days
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.

MPH5040 / MPH6040
Introductory epidemiology

Lecturer: Associate Professor D Magliano
Points: 6
Mode of study:
Semester 1:
Option 1: On-campus @ 2 compulsory contact hours per week
Option 2: Off-Campus Learning + compulsory 2 block days;
Semester 2: Online
Semester 1 or 2
Campus: Alfred
Corequisite: MPH5041

To be taken concurrently with MPH5041. 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.

MPH5041 / MPH6041
Introductory biostatistics

Lecturer: Dr B Biah
Points: 6
Mode of study:
Semester 1:
Option 1: On-campus @ 1.5 lecture + 2 hour tutorial per week; or
Option 2: Off-Campus Learning + compulsory 3 block days;
Semester 2: Online
Semester 1 or 2
Campus: Alfred
Corequisite: MPH5040
Prerequisite: MPH5040

Synopsis: This unit introduces students to biostatistics as applied to public health and management studies. Biostatistics is the science of describing, summarising, and analysing health-related data. It is essential to understand biostatistics in order to design, conduct, and interpret health-related research. The basic principles and methods used in biostatistics are covered in this unit. This includes the technical qualifications necessary for analysing and interpreting data on a descriptive and bivariate level.

Topics include: classifying health data; summarising data using simple statistical methods and graphical presentation; sampling distributions; quantifying uncertainty in results from a sample; working with statistical distributions; comparing two or more groups / methods using confidence intervals and hypothesis tests (p-values); assessing the association between an outcome and an exposure using the chi-squared test; using risk comparisons (RR and OR); predicting an event or identifying risk factors for an event of interest where the event is measured on a continuous scale or a binary scale (yes/no).

MPH5042
Climate change and public health

Lecturers: Professor J Ibrahim
Points: 6
Mode of study: Off-Campus Learning + online + 2 block days
Semester: 2
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.

MPH5200
Regression methods for epidemiology

Lecturer: 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 MPH5040 & MPH5041

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.
### MPH5202 Clinical epidemiology

**Lecturer:** Dr S Pomeroy  
**Points:** 6  
**Mode of study:** Off-Campus Learning + 2 day block  
**Semester:** 1  
**Campus:** Alfred  
**Prerequisites:** MPH5040 & MPH5041  
**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.

### MPH5203 Environmental influences on health

**Lecturer:** Dr E MacFarlane  
**Points:** 6  
**Mode of study:** Off-Campus Learning + compulsory 3 day block  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite:**  
**Synopsis:** Environmental influences on health including physical, chemical and biological hazards as well as principles of assessment, management and control of environmental health risks.

### MPH5207 Chronic disease: epidemiology & prevention

**Lecturer:** Dr R Hall  
**Points:** 6  
**Mode of study:** Off-Campus Learning + 2 day block  
**Semester:** 1  
**Campus:** Alfred  
**Corequisites:** MPH5040 & MPH5041  
**Synopsis:** Epidemiology and control of chronic diseases. Overview of important chronic diseases in Australia in 2015, 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.

### MPH5213 Research methods

**Lecturer:** Associate Professor A Wluka  
**Points:** 6  
**Mode of study:**  
**One of the following:**  
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:** MPH5040 + MPH5041  
**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.

### MPH5218 Infectious disease epidemiology

**Lecturers:** Professor K Leder / Dr R Hall  
**Points:** 6  
**Mode of study:** Off-Campus Learning + compulsory 3 day block  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite:** MPH5040  
**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.

### MPH5222 Assessment and control of workplace hazards

**Lecturer:** Dr G Benke  
**Points:** 6  
**Mode of study:** Off-Campus Learning + compulsory 3 day block  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite:** MPH5243  
**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 medicolegal & epidemiological purposes.

### MPH5231 Research design and project proposal

**Project coordinator:** Professor B Gabbe  
**Points:** 6  
**Mode of study:** Off-Campus Learning / On-campus  
**Semester:** 1 or 2  
**Campus:** Alfred  
**Prerequisites:** Distinction (70-79%)  
**Corequisite:** Distinction (70-79%)  
**Synopsis:** This unit is designed to allow students to identify a research project in the field of population health or clinical research, confirm an appropriate supervisor, develop the research question and methodology, and commence the project, including obtaining ethics approval if relevant.
MPH5232
Research conduct, analysis, write-up and submission

Project coordinator: Professor B Gabbe
Points: 6
Mode of study: Off-Campus Learning / On-campus
Semester: 1 or 2
Campus: Alfred
Prerequisites: Distinction (70-79%) – High Distinction (80% +) in MPH5040, MPH5041, MPH5232
Corequisite: Distinction (70-79%) – High Distinction (80% +) in MPH5213 or MPH5249
Synopsis: This is the final unit of two units designed to allow students to complete the conduct and write-up of a research project in the field of population health or clinical research. In this unit, students will complete the research project described in the research proposal developed in MPH5232. Students will interrogate data using acceptable analytical processes, and write-up the research project in a format and style suitable for publication in an academic setting.

MPH5236
Clinical trials

Lecturer: Dr A Owen
Points: 6
Mode of study: Off-Campus Learning + 2 day block
Semester: 2
Campus: Alfred
Prerequisites / corequisites: MPH5040, MPH5041, MPH5213
Synopsis: This unit assumes a basic understanding of the principles of informed consent. 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.

MPH5237
Measurement in clinical research

Lecturer: Dr C Hodgson
Points: 6
Mode of study: Off-Campus Learning + 2 day block
Semester: 1
Campus: Alfred
Prerequisites: MPH5040 & MPH5041
Synopsis: Aimed at students with clinical experience, this unit presents an overview of clinical outcome measurement in research, with a focus on quantitative measurement. The areas covered include selecting, reducing and scaling items, questionnaire design, assessing reliability and validity, responsiveness of measures to clinically important change, quality of life measures and statistical concepts in the testing and reporting of clinical measurement tools.

MPH5239 / MPH6239
Systematic reviews & meta-analysis

Lecturer: Professor R Buchbinder
Points: 6
Mode of study: Off-Campus Learning + compulsory 3 day block
Semester: 1
Campus: Alfred
Prerequisites: MPH5040 & MPH5041
Synopsis: Critical appraisal of systematic and narrative reviews; The Cochrane Collaboration: Formulating a research question for a systematic review; Developing a protocol for a systematic review of randomised controlled trials for interventions; Searching the literature and identifying relevant studies; Critical appraisal of studies including assessing their risk of bias; Data synthesis and statistics of meta-analysis; Assessing heterogeneity between studies; Sensitivity and subgroup analyses; Interpretation and reporting the results; Application of methods to systematic reviews of non-randomized and non-intervention studies; individual patient meta-analysis.

MPH5241
Introduction to occupational health & safety

Lecturer: Dr R Stuckey
Points: 6
Mode of study: Off-Campus Learning + compulsory 3 day block
Semester: 1
Campus: Alfred

MPH5242
Psychosocial work environment

Lecturer: Dr T Keiegel
Points: 6
Mode of study: Off-Campus Learning + compulsory 3 day block
Semester: 1
Campus: Alfred
Synopsis: Psychosocial effects of work on individuals is explained from a preventive viewpoint. Mental illness & its effect on employment, alcohol and drug use, disability discrimination, equal employment opportunity legislation, workplace health promotion & shift work is examined.

MPH5243
Chemical and biological hazards

Lecturer: Associate Professor D Glass
Points: 6
Mode of study: Off-Campus Learning + compulsory 4 day block
Semester: 1
Campus: Alfred
Synopsis: Prevention of human disease resulting from workplace exposures to chemical & biological hazards. Covering toxicological principles, health effects of major groups of chemical substances, as well as biological hazards from blood and bodily secretions, water, food, animals and travelling abroad.
**Synopsis:** This subject will provide an overview of the history, principles and practice of primary health care (PHC) in developing countries, as well as the interaction between primary healthcare and current trends in global health and international development.

**Synopsis:** This unit aims to equip global health practitioners with a practical understanding of the impact of infectious diseases on global health equity. The unit will explore: key existing and emerging diseases of global health importance; the historical context, determinants and epidemiology of key infectious diseases; the existing and needed global policies, public health responses and effective health care delivery models in resource-limited settings for key infectious diseases.

**Synopsis:** This unit will cover the principles of injury epidemiology, prevention and control. The unit will provide an introduction to the injury epidemiology and prevention field with a particular focus on issues facing injury surveillance, countermeasure development, injury policy and injury burden estimates.

**Synopsis:** This subject will provide an overview of the development, injury policy and injury surveillance, countermeasure development, injury policy and injury burden estimates.
MPH5258
Effective responses to HIV in developing countries

Lecturer: Ms L Renkin
Points: 6
Mode of study: 7 day intensive block
Semester: T2-58
Campus: Alfred
Prerequisite: Basic computer proficiency

Synopsis: The unit 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.

MPH5265
Law for health systems

Lecturer: Mrs E Kennedy
Points: 6
Mode of study: Off-Campus Learning, online + 2 block days
Semester: 2
Campus: Alfred

Synopsis: Review of legal management 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.

MPH5266
Clinical leadership & management

Lecturer: Professor J Stoelwinder
Points: 6
Mode of study: Off-Campus Learning, online + 2 block days
Semester: 1
Campus: Alfred

Synopsis: Review of 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.

MPH5267
Principles of health care quality improvement

Lecturer: Dr S Evans
Points: 6
Mode of study: Off-Campus Learning, online + 2 block days
Semester: 2
Campus: Alfred

Synopsis: The unit looks at 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.

MPH5268
Financial issues in health care management

Lecturers: Ms K Makarounas-Kirchmann / Mr R Cornick
Points: 6
Mode of study: Off-Campus Learning, online + 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.

MPH5269
Foundations of health policy

Lecturer: Professor Just Stoelwinder
Points: 6
Mode of study: Off-Campus Learning, online + 2 block days
Semester: 1
Campus: Alfred

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 web-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. The unit presents foundation concepts in health policy, which can be extended with further study of reform and development of health services (MPH5272) and/or health policy and prevention in a global world (MPH5260).

MPH5270 / MPH6270
Advanced statistical methods for clinical research

Lecturer: Professor R Wolfe
Points: 6
Mode of study: Off-Campus Learning, online + 3 block days
Semester: 2
Campus: Alfred

Prerequisites: MPH5200 + credit average in MPH5040 and MPH5041 & 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.
**MPH5272**  
Reform & development of health services  
**Lecturer:** Professor A Mahal  
**Points:** 6  
**Mode of study:** Off-Campus Learning, online + 2 block days  
**Semester:** 2  
**Campus:** Alfred  
**Recommended:** MPH5269  
**Synopsis:** This unit will examine reform and development in health services from an international, national and domestic 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.

**MPH5273**  
Case study in health services management  
**Lecturers:** Professor J Stoelwinder / Professor F Cicuttini  
**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.

**MPH5276**  
Safety management systems  
**Lecturer:** TBC  
**Points:** TBC  
**Mode of study:** Off-Campus Learning + compulsory 3 block days  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite:** MPH5241  
**Synopsis:** Concepts & practice of occupational health and safety management systems within work environments, including the conduct of an audit are examined. Includes accident/incident causation theories and models, investigative techniques, reporting & statistics, safety systems, fire prevention & control. Incident causation and accident types, including slips, trips and falls are also examined.

**MPH5282**  
Health communications & training  
**Lecturer:** Ms L Davidson  
**Points:** 6  
**Mode of study:** 6 day intensive block  
**Semester:** T3-58  
**Campus:** Alfred  
**Prerequisite:** Basic computer proficiency  
**NB:** Students completing MPH5282 cannot have previously been undertaken MPH5276.  
**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.

**MPH5285**  
Human factors for patient safety  
**Lecturer:** Professor I Ibrahim  
**Points:** 6  
**Mode of study:** Off-Campus Learning, online + 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” focussing on the psychological aspects and, in particular, how this relates to health and what opportunities exist for patient safety efforts.

**MPH5286**  
Applying & practicing the principles of patient safety & quality improvement  
**Lecturer:** Professor J Ibrahim  
**Points:** 6  
**Mode of study:** Off-Campus Learning + online + 2 day block  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite:** Background in health care preferred  
**Synopsis:** This unit provides students with the skills and knowledge to apply tools, techniques, programs or strategies to improve quality of care and patient safety.

**MPH5287**  
Alcohol and other drugs in society: a national and global perspective  
**Lecturer:** Dr P Higgs & Mr C Hughes  
**Points:** 6  
**Mode of study:** 6 day intensive block  
**Semester:** 1  
**Campus:** Alfred  
**Prerequisites:** MPH5040 & MPH5041 or MPH5020  
**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. It aims to broaden students’ understanding of specific health and social outcomes of drug consumption.

**MPH5283**  
Ethics, good research practice & practical research skills  
**Lecturer:** Dr L Bishop  
**Points:** 6  
**Mode of study:** Off-Campus Learning, online + 1 day block  
**Semester:** 2  
**Campus:** Alfred  
**Prerequisite/corequisite:** MPH5213  
**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.
The following units are available to the Monash course codes: 4528 and 4529 ONLY and NOT available to students enrolled in other courses.

The units appear in TEACHING PERIOD order proposed for 2016 / 2017.

**MPH5308**
Developing health systems

*Lecturer:* Professor A Mahal  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 1/2016

**Synopsis:** This unit aims to develop skills to describe and analyse health systems and assess health sector reforms (or health system reforms) in both developed and developing countries, including Australia. The unit introduces participants to alternative conceptual frameworks for describing and analysing health systems, and focuses in particular on one – “the control knobs framework” – which describes the key levers of a health system and how these levers work to influence outcomes of interest such as equity, cost, financial risk protection and quality of care. The control knobs framework is used to describe and analyse health system outcomes in developed and developing countries (including Australia); diagnose existing policy reform challenges; shed light on ongoing health policy debates; and assess a recent case of reform in the health sector.

**MPH5309**
Occupational health and safety

*Lecturer:* TBC  
*Points:* 6  
*Mode of study:* Online over six weeks  
*Teaching Period:* 2/2016

**Synopsis:** This unit will cover the impacts and human cost of occupational disease and injury, occupational health and safety law, frameworks for primary prevention, workers’ compensation systems, occupational rehabilitation, case studies highlighting historical achievements and challenges, international and national occupational health and safety (OHS) organisations.

**MPH5312**
Advances in managing patient care processes

*Lecturer:* Professor J Ibrahim  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 2/2016

**Synopsis:** This unit provides students with the skills and knowledge to apply tools, techniques, programs or strategies to improve the quality of care and patient safety. Students completing this unit will be exposed to current best practice techniques aimed at developing and implementing system improvements to reduce the occurrence of adverse patient outcomes and continually improve the safety and quality of patient care. This unit will cover key approaches used to measuring, monitoring and managing health care for improving quality of care and patient safety. Within the unit students will have the opportunity to develop novel interventions, whilst also evaluating existing interventions aimed at maintaining and improving patient quality and safety.

**MPH5314**
Epidemiology of chronic disease

*Lecturer:* Dr R Hall  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 3/2016

**Synopsis:** This unit provides an introduction to epidemiology and control of chronic diseases. Included in this unit is an overview of important chronic diseases currently impacting Australia, 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 will be examined. Additionally, students will examine the effect of social and economic factors on the epidemiology of chronic diseases and the impact of chronic diseases on society and the economy. The impact of screening and health promotion as public health tools will be discussed, along with use of evidence in public health programmes to prevent chronic diseases.
MGF5963
Introduction to management
Lecturer: Dr G Croy
Points: 6
Mode of study: Online
Teaching Period: 3/2016
Synopsis: TBC

MPH5301
Health systems and policy
Lecturer: Professor J Stoelwinder
Points: 6
Mode of study: Online
Teaching Period: 4/2016
Synopsis: The aim of this unit is to provide health service managers and public health practitioners with a comprehensive understanding of the major components of national health systems and how health policy is created to adapt and reform these systems.

MPH5302
Biostatistics: concepts and applications
Lecturer: Dr B Billah
Points: 6
Mode of study: Online
Teaching Period: 5/2016
Synopsis: This unit introduces students to biostatistics as applied to public health and management studies. Biostatistics is the science of describing, summarising and analysing health-related data. It is essential to understand biostatistics in order to design, conduct and interpret health-related research. The basic principles and methods used in biostatistics are covered in this unit. This includes the technical qualifications necessary for analysing and interpreting data on a descriptive and bivariate level.

MPH5303
Epidemiology and infectious diseases
Lecturer: Professor K Leder
Points: 6
Mode of study: Online
Teaching Period: 6/2016
Synopsis: This unit is an introduction to Infectious Disease Epidemiology. Topics include the dynamic nature of infections, the principles of infectious diseases, identification and management of outbreaks and principles of surveillance. The importance of understanding host, environmental, pathogen and transmission factors will be highlighted.

MKF5505
Marketing for health care managers
Lecturer: Dr E Brady
Points: 6
Mode of study: Online
Teaching Period: 6/2016
Synopsis: This unit will examine marketing activities undertaken by organisations with a special emphasis on the healthcare industry. It provides an introduction of marketing concepts and techniques covering aspects like value exchange, development of corporate and marketing strategic plans, product and service development, the use of marketing decision making tools and fundamentals of consumer behaviour.
2017 – Proposed

**MPH5304**
**Leading and managing in public health and health care**

*Lecturer:* Professor J Stoelwinder  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 1/2017

**Synopsis:** The aim of this unit is to provide health service managers and public health practitioners with the knowledge and skills to manage health care organisational units. Students will explore key management theories, leadership skills, managing health professionals, designing and coordinating health professional work processes, managing change and projects.

**MPH5305**
**Epidemiology: concepts and applications**

*Lecturer:* Associate Professor D Magliano  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 2/2017

**Synopsis:** This unit will provide students with an introduction to key concepts and applications in epidemiology. Key concepts of epidemiology will be delivered throughout the unit, including: rates, sources of data, descriptive and analytical epidemiology, epidemiological study designs, critical appraisal of literature, screening, prevention, exposure assessment, outbreak investigation, confounding and bias.

**MPH5310**
**Introduction to environmental health**

*Lecturer:* Dr E MacFarlane  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 3/2017

**Synopsis:** This unit will cover the environmental influences on health. The unit will examine the impact of physical, chemical and biological hazards in the environment. It will integrate that knowledge with the principles of assessment, management and control of environmental health risks. Theoretical models of risk communication will be developed, with learners applying this knowledge in developing evidence based interventions to control and prevent simple environmental risks.

**EC55979**
**Health Economics**

*Lecturer:* Professor T Harris  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 3/2017

**Synopsis:** This unit provides an understanding of the microeconomic approach to resource allocation, both in general and specifically, in relation to the health sector. It introduces students to the use of economic tools in the analysis of the ‘market’ for health care, in terms of efficiency and equity. It also provides an analytical framework for assessment of the Australian health care system, and health policy generally, from an economic perspective.

**MPH5306**
**Evaluation in public health**

*Lecturer:* Associate Professor D Ilic  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 4/2017

**Synopsis:** This unit provides an introduction to quantitative and qualitative research methods used in public health and the evaluation of disease prevention and health promotion strategies. Levels of evaluation will be examined, with the range of qualitative and quantitative methods suitable for answering different evaluation questions explored. 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.

**MPH5311**
**Safety and quality in health care**

*Lecturer:* Dr M Lubliner  
*Points:* 6  
*Mode of study:* Online  
*Teaching Period:* 4/2017

**Synopsis:** This unit will explore the historical, political and social factors impacting on quality measurement in health care. It will examine the relationship of industrial and health care quality monitoring, through use of epidemiological and statistical quality measurement principles. Strengths and limitations of current monitoring techniques and different sources of health care quality data will be examined. During the unit, the principles of clinical indicator programs, adverse event monitoring, satisfaction surveys and benchmarking will be utilised including the design, implementation and evaluation of quality improvement programs in clinical settings.
**MPH5307**  
*Introduction to health law principles*  
**Lecturer:** Ms E Kennedy  
**Points:** 6  
**Mode of study:** Online  
**Teaching Period:** 5/2017  
**Synopsis:** Review of legal principles related to health care; including common law principles and statutes. The focus is 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, ethics and human rights and law for health systems.

**ACF5268**  
*Accounting for health care managers*  
**Lecturer:** TBC  
**Points:** 6  
**Mode of study:** Online  
**Teaching Period:** 6/2017  
**Synopsis:** This unit introduces basic accounting principles for non-accountants. The information requirements of two main groups are examined – external users such as owners or investors; and internal users such as managers. The structure, meaning, analysis and interpretation of financial statements are explored, together with key measures of assessing financial performance. Financial issues confronting healthcare managers, such as budgeting, cost management and performance measurement are also introduced.

**MPH5313**  
*Challenges in public health*  
**Lecturer:** Dr H Kelsall  
**Points:** 6  
**Mode of study:** Online  
**Teaching Period:** 6/2017  
**Synopsis:** This unit will examine foundation aspects of public health with a focus on contemporary challenges. Students will apply this knowledge to critically appraise initiatives to address complex health issues from a public health perspective, and will be expected to engage with current public health issues and communicate their ideas clearly and effectively.
# Timetable proposed for 2016, January – June


<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
<th>Teaching Cal</th>
<th>Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5020</td>
<td>Introduction to Epidemiology &amp; Biostatistics</td>
<td>Flavia Cicuttini / Miranda Davies</td>
<td>OCL + 1 block day</td>
<td>4 March</td>
<td>S1-01</td>
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<tr>
<td>MPH5040/6040-DAY</td>
<td>Introductory Epidemiology (lecture)</td>
<td>Dianna Magliano</td>
<td>Weekly – DAY</td>
<td>Thurs 9–10am</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5040/6040-TUTE</td>
<td>Introductory Epidemiology (tutorial)</td>
<td>Dianna Magliano</td>
<td>Weekly – TUTE</td>
<td>Thurs 10–11am</td>
<td>S1-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5041/6041-DAY</td>
<td>Introductory Biostatistics (lecture)</td>
<td>Baki Bilian</td>
<td>Weekly – DAY</td>
<td>Thurs 11.30am–1.30pm</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5041/6041-TUTE</td>
<td>Introductory Biostatistics (tutorial)</td>
<td>Baki Bilian</td>
<td>Weekly – TUTE</td>
<td>Thurs 2–4pm</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5040/6040-DE</td>
<td>Introductory Epidemiology (DE – Block days)</td>
<td>Dianna Magliano</td>
<td>OCL + COMPULSORY 2 block days – DE</td>
<td>29 Feb + 13 Apr</td>
<td>S1-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5041/6041-DE</td>
<td>Introductory Biostatistics (DE – Block days)</td>
<td>Baki Bilian</td>
<td>OCL + COMPULSORY 3 block days – DE</td>
<td>2 Mar + 11–12 Apr</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5200</td>
<td>Regression Methods for Epidemiology</td>
<td>Rony Wolfe</td>
<td>OCL + 2 x 2 day block</td>
<td>17–18 Mar 12–13 May</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5202</td>
<td>Clinical Epidemiology</td>
<td>Sylvia Pomeroy</td>
<td>OCL + 2 day block</td>
<td>4 Mar + 27 May</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5207</td>
<td>Chronic Diseases: Epidemiology &amp; Prevention</td>
<td>Robert Hall</td>
<td>OCL + 2 day block</td>
<td>8–9 March</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5237</td>
<td>Clinical Measurement</td>
<td>Card Hodgson</td>
<td>OCL + 2 day block</td>
<td>15–16 March</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5241</td>
<td>Introduction to Occupational Health &amp; Safety</td>
<td>Ruth Stuckey</td>
<td>OCL + 3 day block</td>
<td>4–6 May</td>
<td>S1-01</td>
<td>OEH</td>
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<tr>
<td>MPH5242</td>
<td>Psychosocial Work Environment</td>
<td>Tessa Keegel</td>
<td>OCL + 3 day block</td>
<td>11–13 May</td>
<td>S1-01</td>
<td>OEH</td>
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<tr>
<td>MPH5243</td>
<td>Chemical &amp; Biological Hazards</td>
<td>Deborah Glass</td>
<td>OCL + 4 day block</td>
<td>21-24 March</td>
<td>S1-01</td>
<td>OEH</td>
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<tr>
<td>MPH5248</td>
<td>Primary Health Care &amp; Global Health</td>
<td>Matt Reeve / Chris Morgan</td>
<td>5 day block</td>
<td>TBA</td>
<td>S1-01</td>
<td>IH</td>
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<tr>
<td>MPH5249</td>
<td>Field Methods for IH Planning &amp; Evaluation</td>
<td>Ben Coghlan / Tony Stewart</td>
<td>5 day block</td>
<td>TBA</td>
<td>S1-01</td>
<td>IH</td>
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<tr>
<td>MPH5250</td>
<td>Women’s &amp; children’s health: a global perspective</td>
<td>Elissa Kennedy</td>
<td>6 day block</td>
<td>31 May – 7 June</td>
<td>T2-58</td>
<td>IH</td>
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<tr>
<td>MPH5253</td>
<td>Public Health in Refugee Settings</td>
<td>Mike Toole / Ben Coghlan</td>
<td>7 day block</td>
<td>9–10 May &amp; 13 May ~ MonAlf SR 2 11 May ~ AMREP SR</td>
<td>S1-01</td>
<td>IH</td>
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<tr>
<td>MPH5255</td>
<td>Health &amp; Human Rights</td>
<td>Liz Bishop</td>
<td>OCL + 4 day blocks</td>
<td>2–10 February</td>
<td>T1-57</td>
<td>IH</td>
</tr>
<tr>
<td>MPH5258</td>
<td>Effective Response to HIV in Dev. Countries</td>
<td>Lisa Renkin</td>
<td>7 day block</td>
<td>TBC</td>
<td></td>
<td>IH</td>
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<tr>
<td>MPH5266</td>
<td>Clinical Leadership &amp; Management</td>
<td>Just Stoelwinder</td>
<td>OCL + 2 block days</td>
<td>29 Feb + 18 Apr</td>
<td>S1-01</td>
<td>HSM</td>
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<tr>
<td>MPH5268</td>
<td>Financial Issues in Health Care Management</td>
<td>Kelly Makaroninas-Kirchmann / R Cornick</td>
<td>OCL + 2 block days</td>
<td>1 March + 19 Apr</td>
<td>S1-01</td>
<td>HSM</td>
</tr>
<tr>
<td>MPH5269</td>
<td>Foundations of Health Policy</td>
<td>Just Stoelwinder</td>
<td>OCL + 2 block days</td>
<td>2 March + 20 Apr</td>
<td>S1-01</td>
<td>HSM</td>
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<tr>
<td>MPH5273</td>
<td>Case Study**</td>
<td>Just Stoelwinder / Flavia Cicuttini</td>
<td>OCL</td>
<td>NA</td>
<td>S1-01</td>
<td>HSM</td>
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<tr>
<td>MPH5285</td>
<td>Human Factors for Patient Safety</td>
<td>Joe Ibrahim</td>
<td>OCL + 2 block days</td>
<td>9 March + 18 May</td>
<td>S1-01</td>
<td>HSM</td>
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<tr>
<td>MPH5287</td>
<td>Alcohol &amp; other drugs in Society: a national and global perspective</td>
<td>Chad Hughes / Peter Higgs</td>
<td>6 day block</td>
<td>27 April – 4 May</td>
<td>T2-57</td>
<td>IH</td>
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<td>Other Units</td>
<td>Title</td>
<td>Coordinator</td>
<td>Mode</td>
<td>Date/Time</td>
<td>Teaching Cal</td>
<td>Stream</td>
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<td>DPH6005</td>
<td>Public Health Practice</td>
<td>Robert Hall</td>
<td>OCL</td>
<td>For DPH course</td>
<td>S1-01</td>
<td>DPH</td>
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<td>ECC5970</td>
<td>Introduction to Health Economics</td>
<td>Duncan Mortimer</td>
<td>OCL</td>
<td>NA</td>
<td>S1-01</td>
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<tr>
<td>ECCS975</td>
<td>Health Economics for Developing Countries</td>
<td>Paula Longelly</td>
<td>one week block</td>
<td>11–15 May</td>
<td>S1-01</td>
<td>MPH</td>
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<tr>
<td>EPM5001</td>
<td>Health Indicators &amp; Health Surveys</td>
<td>Julie Simpson</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5002</td>
<td>Mathematical Background for Biostatistics</td>
<td>Gary Glonek</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5003</td>
<td>Principles of Statistical Inference</td>
<td>Rachel O’Connell</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5004</td>
<td>Linear Models</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5005</td>
<td>Data Management &amp; Statistical Computing</td>
<td>Patrick McElduff</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5006</td>
<td>Clinical Biostatistics</td>
<td>A Dobson</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5008</td>
<td>Longitudinal &amp; Correlated Data Analysis</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5010</td>
<td>Survival Analysis</td>
<td>Ken Beath</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5011</td>
<td>Biostatistical Practical Project (double unit)**</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5014</td>
<td>Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>EPM5015</td>
<td>Biostatistical Practical Project (single unit)</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics</td>
<td>S1-01</td>
<td>BS</td>
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<tr>
<td>GHS5850</td>
<td>Nursing leadership &amp; management</td>
<td>Ingrid Brooks</td>
<td>Flexible</td>
<td>NA</td>
<td>S1-01</td>
<td>HSM</td>
</tr>
<tr>
<td>HSC5002</td>
<td>Foundations of Health Promotion and Program Planning</td>
<td>Ben Smith</td>
<td>OCL + 2 day block</td>
<td>11 March + 22 Apr</td>
<td>S1-01</td>
<td>MPH</td>
</tr>
<tr>
<td>MAP4220</td>
<td>Improving Indigenous Equity in Professional Practice</td>
<td>Karen Adams</td>
<td>OCL</td>
<td>NA</td>
<td>S1-01</td>
<td>MPH</td>
</tr>
</tbody>
</table>

**Key:**
- **OCL** = off-campus learning mode of study (Distance Education)
- **full year unit**
- † attached OR Contact Burnet Institute (03) 2163 2 months prior for dates or check www.med.monash.edu.au/epidemiology/pgrad/

**LOCATION VENUE Key:**
- **AMREP** Education Centre, Ground Floor, Alfred Hospital. **C** = Classroom 1-3, **MR** = Meeting Rooms 1-6, **SR** = Seminar Room, **Lec Th** = Lecture Theatre
- **Burnet** = Burnet Institute, Training Rooms, Level 2, 85 Commercial Rd, Melbourne
- **MonAlf** = Lecture Theatre, Seminar Room, Tutorial Rooms, PC Lab are located on Level 5, Alfred Centre, 99 Commercial Rd (near cnr Punt Rd), Melbourne

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

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

Check timetable changes on www.med.monash.edu.au/epidemiology/pgrad/
Timetable proposed for 2016, July – December

Check timetable changes at: www.med.monash.edu.au/epidemiology/pgrad/

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
<th>Teaching Cal</th>
<th>Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5042</td>
<td>Climate Change and Public Health</td>
<td>Joseph Ibrahim</td>
<td>OCL + 2 block days</td>
<td>3 Aug + 5 Oct</td>
<td>S2-01</td>
<td>HSM</td>
</tr>
<tr>
<td>MPH5020</td>
<td>Introduction to Epidemiology &amp; Biostatistics</td>
<td>Flavia Ciutti / Miranda Davies</td>
<td>OCL + 1 block day</td>
<td>29 July</td>
<td>S2-01</td>
<td>MPH</td>
</tr>
<tr>
<td>MPH5040/MFH6040</td>
<td>Introductory Epidemiology</td>
<td>Dianna Magliano</td>
<td>OCL</td>
<td>NA</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5041/MFH6041</td>
<td>Introductory Biostatistics</td>
<td>Baki Billah</td>
<td>OCL</td>
<td>NA</td>
<td>S1-01</td>
<td>CE</td>
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<tr>
<td>MPH5203</td>
<td>Environmental Influences on Health</td>
<td>Ewan MacFarlane</td>
<td>OCL + 3 block days</td>
<td>5–7 Sept</td>
<td>S2-01</td>
<td>OEH</td>
</tr>
<tr>
<td>MPH5213</td>
<td>Research Methods</td>
<td>Anita Wiuka</td>
<td>Optn 1: Weekly – DAY</td>
<td>Thurs 9–11am</td>
<td>S2-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5213</td>
<td>Research Methods</td>
<td>Anita Wiuka</td>
<td>Optn 2: OCL + 2 day block – DE</td>
<td>2–3 Aug</td>
<td>S2-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5218</td>
<td>Infectious Diseases: Epidemiology &amp; Prevention</td>
<td>Karin Leder / Robert Hall</td>
<td>OCL + 3 block days</td>
<td>27 July, 31 Aug + 19 Oct</td>
<td>S2-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5222</td>
<td>Assessment &amp; Control of Workplace Hazards</td>
<td>Geza Benke</td>
<td>OCL + 3 day block</td>
<td>12–14 Sept</td>
<td>S2-01</td>
<td>OEH</td>
</tr>
<tr>
<td>MPH5236</td>
<td>Clinical Trials</td>
<td>Alice Owen</td>
<td>OCL + 2 day block</td>
<td>15–16 August</td>
<td>S2-01</td>
<td>CE</td>
</tr>
<tr>
<td>MPH5239/MFH6239</td>
<td>Systematic Reviews &amp; Meta Analysis</td>
<td>Rachelle Buchbinder</td>
<td>OCL + 2 block days</td>
<td>1 Aug + 10 Oct</td>
<td>S2-01</td>
<td>CE</td>
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<tr>
<td>MPH5244</td>
<td>Ergonomic &amp; Physical Hazards</td>
<td>Ruth Stuckey</td>
<td>OCL + 3 day block</td>
<td>24–26 August</td>
<td>S2-01</td>
<td>OEH</td>
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<tr>
<td>MPH5248</td>
<td>Primary Health Care &amp; Global Health</td>
<td>Matt Reeve / Chris Morgan</td>
<td>5 day block</td>
<td>8–12 August</td>
<td>T3-57</td>
<td>IH</td>
</tr>
<tr>
<td>MPH5249</td>
<td>Field Methods for IH Planning and Evaluation</td>
<td>Ben Coghlan / Tony Stewart</td>
<td>5 day block</td>
<td>5–9 September</td>
<td>T3-57</td>
<td>IH</td>
</tr>
<tr>
<td>MPH5251</td>
<td>Infectious Diseases and Global Health</td>
<td>Suman Majumdar / Geoff Chan</td>
<td>5 day block excl. weekend</td>
<td>15–21 September</td>
<td>T3-57</td>
<td>IH</td>
</tr>
<tr>
<td>MPH5254</td>
<td>Nutrition in Developing Countries</td>
<td>Mike Toole</td>
<td>6 day block excl. weekend</td>
<td>18–25 August</td>
<td>T3-57</td>
<td>IH</td>
</tr>
<tr>
<td>MPH5256</td>
<td>Injury Epidemiology &amp; Prevention</td>
<td>Belinda Gabbe</td>
<td>5 day block</td>
<td>11–15 July</td>
<td>T2-58</td>
<td>OEH</td>
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<tr>
<td>MPH5260</td>
<td>Health Policy &amp; Prevention in a Global World</td>
<td></td>
<td>OCL + 2 day block</td>
<td>not offered 2016</td>
<td>S2-01</td>
<td>IH</td>
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<tr>
<td>MPH5265</td>
<td>Law for Health Systems</td>
<td>Elizabeth Kennedy</td>
<td>OCL + 2 block days</td>
<td>25 July + 19 Sept</td>
<td>S2-01</td>
<td>HSM</td>
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<tr>
<td>MPH5267</td>
<td>Principles of H/Care Quality Improvement</td>
<td>Sue Evans</td>
<td>OCL + 2 block days</td>
<td>26 July + 13 Sept</td>
<td>S2-01</td>
<td>HSM</td>
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<tr>
<td>MPH5270/MFH6270</td>
<td>Advanced Statistical Methods for Clinical Research</td>
<td>Rory Wolfe</td>
<td>OCL + 3 block days</td>
<td>17 Aug + 11–12 Oct</td>
<td>S2-01</td>
<td>CE</td>
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<tr>
<td>MPH5272</td>
<td>Reform &amp; Development of Health Services</td>
<td>Ajay Mahal</td>
<td>OCL + 2 block days</td>
<td>27 July + 21 Sept</td>
<td>S2-01</td>
<td>HSM</td>
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<tr>
<td>MPH5276</td>
<td>Safety Management Systems</td>
<td>Neville Betts</td>
<td>OCL + 3 day block</td>
<td>3–5 October</td>
<td>S2-01</td>
<td>OEH</td>
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<tr>
<td>MPH5282</td>
<td>Health Communication &amp; Training</td>
<td>Lisa Davidson</td>
<td>6 day block</td>
<td>12–19 October</td>
<td>T3-58</td>
<td>IH</td>
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<tr>
<td>MPH5283</td>
<td>Ethics, Good Research Practice &amp; Practical Research Skills</td>
<td>Liz Bishop</td>
<td>OCL + 1 day block</td>
<td>9–Aug</td>
<td>S2-01</td>
<td>CRM</td>
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<tr>
<td>MPH5286</td>
<td>Applying &amp; Practicing the Principles of PS &amp; CI</td>
<td>Joseph Ibrahim</td>
<td>OCL + 2 block days</td>
<td>28 July + 14 Sept</td>
<td>S2-01</td>
<td>HSM</td>
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</tbody>
</table>
### Postgraduate Courses 2016

**Key:**
- 
**OCL** = off-campus learning mode of study (Distance Education)
- † 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/)
- § Contact Heather Alco heather.alco@monash.edu before 1 October for summer semester dates.

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<table>
<thead>
<tr>
<th>Other Units</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
<th>Teaching Cal</th>
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<tr>
<td>DPH6005</td>
<td>Public Health Practice</td>
<td>Robert Hall</td>
<td>OCL</td>
<td>For DPH course students only</td>
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<td>DPH</td>
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<tr>
<td>ECC5971</td>
<td>Pharmaceutical Economics</td>
<td>Duncan Mortimer</td>
<td>OCL</td>
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<tr>
<td>ECC5973</td>
<td>Economics Evaluation in Health Care</td>
<td>Duncan Mortimer</td>
<td>OCL</td>
<td>NA</td>
<td>S2-01</td>
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<tr>
<td>ECC5974</td>
<td>Applied Health Economics &amp; Health Policy</td>
<td>Duncan Mortimer</td>
<td>OCL</td>
<td>NA</td>
<td>S2-01</td>
<td>MPH</td>
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<tr>
<td>EPM5002</td>
<td>Mathematical Background for Biostatistics</td>
<td>Gary Glonek</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
<td>BS</td>
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<tr>
<td>EPM5003</td>
<td>Principles of Statistical Inference</td>
<td>Rachel O’Connell / Patrick Kelly</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
<td>BS</td>
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<tr>
<td>EPM5004</td>
<td>Linear Models</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
<td>BS</td>
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<tr>
<td>EPM5005</td>
<td>Data Management &amp; Statistical Computing</td>
<td>Patrick McElduff / Helena Romanuk</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5007</td>
<td>Design of Experiments &amp; Clinical Trials</td>
<td>Lisa Yelland</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5009</td>
<td>Categorical Data &amp; Generalised Linear Models</td>
<td>A Dobson</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
<td>BS</td>
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<tr>
<td>EPM5011</td>
<td>Biostatistical Practical Project (double unit)**</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5012</td>
<td>Bioinformatics</td>
<td>Nicola Armstrong / Natalie Thorne</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5013</td>
<td>Bayesian Statistical Methods</td>
<td>L. Gurrin</td>
<td>not offered in 2015</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5014</td>
<td>Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
<td>S2-01</td>
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<tr>
<td>EPM5015</td>
<td>Biostatistical Practical Project (single unit)</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
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<tr>
<td>EPM5023</td>
<td>Ethical Issues in International Health and Research</td>
<td>Bebe Loff</td>
<td>OCL + 4 block days</td>
<td>25-28 July</td>
<td>S2-01</td>
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<tr>
<td>HSC5022</td>
<td>Evaluating Public Health Programs</td>
<td>Ben Smith</td>
<td>OCL + 2 block days</td>
<td>12 Aug + 16 Sept</td>
<td>S2-01</td>
<td>MPH</td>
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</tbody>
</table>

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**LOCATION VENUE Key:**
- AMREP = Education Centre, Ground Floor, Alfred Hospital  C = Classroom 1-3,
- MR = Meeting Rooms 1-6, SR = Seminar Room
- Burnet = Burnet Institute, Training Rooms, Level 2, 85 Commercial Rd, Melbourne
- MonAff = Lecture Theatre, Seminar Room 1-2, Tutorial Rooms 1-8, Classrooms, Computer Lab are located on Level 5, Alfred Centre, 99 Commercial Rd (near cnr Punt Rd), Melbourne

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

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

Teaching Locations 2016

**Department of Epidemiology & Preventive Medicine**
School of Public Health & Preventive Medicine
99 Commercial Road (cnr Punt & Commercial Roads)
6th Floor, The Alfred Centre, Melbourne
Postgraduate Office –
T: 9903 0563; E: pgradenq@monash.edu
Easily accessible by public transport and has limited on-street parking.
Melway map reference: 2L B9 / 58 B5

**Alfred Medical Research Education Precinct (AMREP)**
Ground Floor, next to Ian Potter Library
Alfred Hospital
Commercial Road, Melbourne
Melway map reference: 58 B5

**Burnet Institute**
Centre for International Health
Alfred Hospital
85–89 Commercial Road, Melbourne
Student Liaison Office –
T: 9282 2167
Easily accessible by public transport and has limited on-street parking.
Melway map reference: 2L D12
Application Information

Semester Dates 2016

**Semester 1:** 29 Feb – 27 May
Vacation: 25 Mar – 1 April

**Semester 2:** 25 July – 21 October
Vacation: 26 September – 30 September

*NOTE: Teaching period and Census dates –
www.monash.edu/енийments/dates/census.html

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/study/international/postgraduate/

All Monash applicants must satisfy university English language requirements for entry into Monash undergraduate and postgraduate courses.

English language requirements: monash.edu/admissions/english-language-requirements.html

Application Procedures

**Domestic Applicants**

**2016 Domestic applications closing dates:**

20th November 2015 – First round
Applicants that want to be considered for a CSP MUST submit a completed application by this date. Please note limited CSP places available.

20th January 2016 – Second round

All our postgraduate courses are available to domestic applicants.

Domestic applicants apply online via monash.edu.au/admissions/apply/online.html

*NOTE: When Online Applications close in mid-January you can print off a ‘Direct Application Form’ available on our webpage: www.med.monash.edu.au/epidemiology/пграда and submit via email to pgradenq@monash.edu.

**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/postgraduate/

For international application enquiries please contact:
International Recruitment Services
Monash University
900 Dandenong Road,
Caulfield East, Victoria 3145, Australia

T: +61 3 9903 4788
E: study@monash.edu

Application CHECKLIST

- Evidence of Australian citizenship or Australian permanent residency
- Certified copies of official academic transcripts
- Evidence of English language proficiency (if not established by tertiary transcripts)
- A Curriculum Vitae
- A Statement of Purpose i.e. reasons for undertaking the course
- An Application for Credit (if relevant)

For course enquiries please contact:
Postgraduate Office
School of Public Health & Preventive Medicine
Monash University
E: pgradenq@monash.edu
T: 9903 0563
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/Completed forms must be accompanied with full documentation, including unit/course outlines and content descriptions, academic transcripts etc. Applications can be uploaded at the same time as submitting a course application online.

For further information on obtaining credit please refer to: www.med.monash.edu.au/policies/credit.html

Course Fees

Our postgraduate course fees are reviewed annually and are subject to approval by the University. All our courses are fee-paying.

Fee-Paying Courses

All our postgraduate coursework programs are offered as full-fee paying courses. 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.

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://www.monash.edu.au/enrolments/loans/domestic-full-fee.html

For more information, contact Monash Connect, webpage: www.monash.edu.au/connect/ or visit the Australian Government’s webpage: www.education.gov.au/students-2

Monash Fees Unit

For all your fee queries please contact Monash Connect on:

T: 1800 MONASH (1800 666 274)
   from overseas +61 3 9902 6011
E: fees.unit@monash.edu
W: monash.edu.au/fees/

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

Course fees for 2016

Domestic students

Fee paying courses between $22,400–24,000 per full-time year (8 units)
For details see: monash.edu/fees/domestic-full-fee.html
FEE-HELP available: www.monash.edu/enrolments/loans/domestic-full-fee.html
Single Unit and Cross-institutional enrolment approximately $3,250.

International students

Fee paying courses approximately A$33,000 per full-time year (8 units)
Cross-institutional enrolment approximately A$4,700.

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

Further information

Postgraduate Office
School of Public Health
& Preventive Medicine
The Alfred Centre,
Melbourne VIC 3004
T: +61 3 9903 0563
E: pgradenq@monash.edu
W: www.med.monash.edu.au/
    epidemiology/pgrad/