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Using this guide

This guide contains general information on the postgraduate courses offered for 2010 in the Department of Epidemiology and Preventive Medicine (DEPM). All information is correct at the time of printing, September 2009. All changes to the DEPM timetable will be published on the following website: www.med.monash.edu.au/epidemiology/pgrad/.



Professor John McNeil
Head of School and DEPM

Welcome

Postgraduate study at Monash can open many doors.

The Monash approach is leading the way in higher education not only because of our absolute commitment to teaching excellence, but also because we offer a truly global education.

As a large and diverse academic community of the 21st century, 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.

In 2008 we were delighted to announce the formation of the School of Public Health and Preventive Medicine, developed through linking the Department of Epidemiology and Preventive Medicine (DEPM), the Monash Institute of Health Services Research (MIHSR), the Victorian Institute of Forensic Medicine and the Centre for Obesity Research and Education.

Taking part in our department's postgraduate courses in public health and related areas is exciting, challenging and intellectually stimulating. As a centre of excellence dedicated to learning and research, our department has become a national leader in these increasingly important fields.

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 across Australia as well as in developing countries.

With a strong tradition of success for over 20 years, our department, and our collaborators are at the forefront of postgraduate education in public health, clinical epidemiology research methods, health services management, international health, occupational and environmental health, and research. From humble beginnings in 1981, when we accepted our first small intake of MPH students, we have developed a vibrant and interactive program of nineteen postgraduate courses which in 2009 enrolled 400 plus local and international students.

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

Professor John McNeil
Head
School of Public Health and Preventive Medicine
Department of Epidemiology and Preventive Medicine

Department of Epidemiology and Preventive Medicine
Alfred Hospital, Melbourne
Victoria 3004, Australia

Course Inquiries

Email: pgradenq@med.monash.edu.au
Website: www.med.monash.edu.au/epidemiology/pgrad/
Telephone: +61 3 9903 0563
Facsimile: +61 3 9903 0556

Postgraduate Courses 2010

Public Health (PH)	Code	CRICOS	Units	Credit Points
Master of Public Health*▲	0046	021280B	12	72
Doctor of Public Health*	3403	038563G		
Biostatistics (BS)				
Graduate Certificate in Biostatistics▲	3420		4	24
Graduate Diploma in Biostatistics▲	3421		8	48
Master of Biostatistics▲	3422		12	72
Clinical Epidemiology (CE)				
Graduate Certificate in Clinical Research Methods	3416		4	24
Graduate Diploma in Clinical Research Methods*	0702	13402G	8	48
Master of Clinical Research Methods*	2311	028956F	12	72
Health Services Management (HSM)				
Graduate Certificate in Health Services Management	2870		4	24
Graduate Diploma in Health Services Management	2314	037848B	8	48
Master of Health Services Management*	2872	038564F	12	72
International Health (IH)				
Graduate Diploma in International Health*	1884	030778A	8	48
Master of International Health*	3874	054588J	12	72
Graduate Certificate in International Research Bioethics	3873		4	24
Master of International Research Bioethics*	3440	048299B	12	72
Occupational and Environmental Health (OEH)				
Graduate Certificate in Occupational Health	2868		4	24
Graduate Diploma in Occupational & Environmental Health*	0160	037584D	8	48
Master of Occupational & Environmental Health*	2312	028957E	12	72

* Indicates courses available to international students in Australia
Monash University CRICOS provider code: 0008C/March 2002

▲ = limited mid-year intake

Our MPH provides you with

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

Course structure

Study mode: Local students: On-campus + block, partial block or Off-campus with compulsory block requirements.
 International students: On-campus.

Study length: Part-time: 3 years @ 2 units per semester or Full-time: 1.5 years @ 4 units per semester

Study structure 12 units

Part One: 2 core units

Part Two: 10 units comprised of:

- a) 1 core unit + 9 units (including up to 3 MPH Consortium units)
- b) 1 core unit + 5 - 7 units (including up to 3 MPH Consortium units) + a minor research project equivalent to 2 units or a major research project equivalent to 4 units.

Recommended enrolment

Part One	Part Two
<p>Core Units MPH1030 Introductory epidemiology MPH1031 Introductory biostatistics OR MPH1040 Introductory epidemiology# MPH1041 Introductory biostatistics#</p>	<p>Core Unit MPH2013 Research methods# OR MPH2049 Field methods for international health planning & evaluation (for international health stream)</p> <p>Elective options 1. MPH (unit code) postgraduate units from the following streams: Health Specialisation streams</p> <ul style="list-style-type: none"> o Clinical Research Methods o Health Economics o Health Services Management o International Health o Occupational and Environmental Health o General Stream o Research Stream <p>Final year alternative option MPH2073 Case study for health services (equate to 2 elective units) This unit provides an opportunity to explore in detail a complex problem in the student's workplace or health care setting – subject to Course Coordinator's approval.</p> <p>2. MPH Consortium units (up to 3) MPH1003 Environmental influences on health MPH1016 Health promotion or MPH2082 Health communications & training MPH2025 Principles & practice of public health MPH2031 Public health policy or MPH2069 Health systems policy MPH2034 Social & cultural perspectives in public health MPH2035 Health economics & program evaluation or ECX9700 Introduction to health economics</p>

Note:

MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; available in on and off campus mode. Check unit details and prerequisites prior to enrolment.
 Timetable & venue key: See [pages 40-41](#)

Public Health

Master of Public Health

Course Codes: 0046/CRICOS 021280B



Doctor of Public Health

3403 / CRICOS 038563G

This course is taught in collaboration with Deakin, LaTrobe and Melbourne universities as part of the Victorian Consortium for Public Health. The course provides you with the full range of quantitative, analytical and communication skills necessary to work in the broad domain of public health. This degree provides you with the skills in care provision within Australia and developing countries. Health specialisation streams are offered in clinical research methods, health economics, health services management, international health, occupational health and research.

Students can exit with a Graduate Diploma or Graduate Certificate providing the relevant units are completed.

Entry requirement

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

International Entry Requirements refer to the University International Postgraduate Course Guide or www.monash.edu.au/international/

Assessment

Assessment includes web-based tasks, written exercises, assignments, examinations, presentations, class participation and optional supervised project.

Professional recognition

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

Career fields

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

Further information

Course Coordinator: Professor Flavia Cicuttini
Ph: (03) 9903 0158
Email: flavia.cicuttini@med.monash.edu.au

Recommended enrolment

Clinical Research Methods stream	Health Economics stream
<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2013 Research methods# MPH2036 Clinical trials</p> <p>Semester 1 – Year 2 MPH2037 Clinical measurement MPH2077 Data management & computing Semester 2 MPH2039 Meta analysis & systematic reviews MPH2083 Ethics, good research practice & practical research</p> <p>Semester 1 – Year 3 Electives x 2 Semester 2 Electives x 2</p> <p>FULL-TIME Semester 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# MPH2037 Clinical measurement MPH2077 Data management & computing Semester 2 MPH2013 Research methods# MPH2036 Clinical trials MPH2039 Meta analysis & systematic reviews MPH2083 Ethics, good research practice & practical research</p> <p>Semester 1 Electives x 4</p>	<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2013 Research methods# ECX9730 Economics evaluation in health care (OCL)</p> <p>Semester 1 – Year 2 ECX9700 Introduction to health economics (OCL) ECX9120 Introduction to microeconomics theory & practice (OCL)(E) Semester 2 ECX9710 Pharmaceutical economics (OCL)(E) ECX9741 Applied health economics & health policy (summer) (OCL)</p> <p>Semester 1 – Year 3 MPH2068 Financial issues in health care management (E) ECX9750 Principles of health economics for developing countries (OCL)(E) Semester 2 Elective x 2</p> <p>FULL-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# ECX9700 Introduction to health economics (OCL) ECX9120 Introduction to microeconomics theory & practice (OCL)(E) Semester 2 MPH2013 Research methods# ECX9720 Economics evaluation in health care (OCL) ECX9710 Pharmaceutical economics (OCL)(E) ECX9741 Applied health economics & health policy (summer) (OCL)</p> <p>Semester 1 – Year 2 MPH2068 Financial issues in health care management (E) ECX9750 Principles of health economics for developing countries (OCL)(E) Elective x 2</p>
<p>Elective options MPH2002 Clinical epidemiology MPH2000 Regression methods for epidemiology MPH2007 Chronic diseases: epidemiology & prevention MPH2018 Infectious diseases: epidemiology & prevention MPH2056 Injury epidemiology & prevention MPH2060 Prevention: policies & strategies MPH2070 Advanced statistical methods for clinical research Minor project (8,000-10,000 words) MPH (unit code) postgraduate units Master of Public Health consortium units</p> <p>Stream coordinator: Associate Professor A Cheng Email: allen.cheng@med.monash.edu.au</p>	<p>Elective options MPH (unit code) postgraduate unit Master of Public Health Consortium units</p> <p>Stream coordinator: Ms J Watts Ph: (03) 9905 0776 Email: jenny.watts@buseco.monash.edu.au</p>

Note: Part One core units are highlighted in blue + Part Two core units are highlighted in bold black.
MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; # available in on and off campus mode; OCL = Off Campus Learning. **Students must complete compulsory block attendance.**
International students – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students. Please review any variation to recommended enrolment with the Course Coordinator.
Check unit details and prerequisites prior to enrolment. Timetable & venue key: See pages 40-41

Recommended enrolment

Health Services Management stream	International Health stream
<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2013 Research methods# MPH2067 Principles of health care quality improvement</p> <p>Semester 1 – Year 2 MPH2066 Clinical leadership & management MPH2069 Health systems policy (E) Semester 2 MPH2072 Reform & development of health services (E) MPH2065 Law for health systems (E)</p> <p>Semester 1 – Year 3 MPH2068 Financial issues in health care management (E) Elective Semester 2 Electives x 2</p> <p>FULL-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# MPH2066 Clinical leadership & management MPH2069 Health systems policy (E) Semester 2 MPH2013 Research methods# MPH2067 Principles of health care quality improvement MPH2072 Reform & development of health services (E) MPH2065 Law for health systems (E)</p> <p>Semester 1 – Year 2 MPH2068 Financial issues in health care management (E) Electives x 3</p>	<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2048 Primary health care in developing countries■ MPH2049 Field methods for international health planning & evaluation■</p> <p>Semester 1 – Year 2 MPH2050 Health of women & children in developing countries (E)◆ MPH2055 Health ethics & human rights (E) Semester 2 MPH2051 Communicable diseases control in developing countries(E) MPH2054 Nutritional issues in developing countries (E)</p> <p>Semester 1 – Year 3 MPH2053 Public health in refugee settings (E)■◆ Elective Semester 2 MPH2060 Policy & strategy for disease prevention & health promotion (E) Elective</p> <p>FULL-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# MPH2050 Health of women & children in developing countries (E)◆ MPH2055 Health ethics & human rights (E) Semester 2 MPH2048 Primary health care in developing countries■ MPH2049 Field methods for international health planning & evaluation■ MPH2051 Communicable diseases control in developing countries(E) MPH2054 Nutritional issues in developing countries (E)</p> <p>Semester 1 – Year 2 MPH2053 Public health in refugee settings (E)■◆ Elective x 3</p>
<p>Elective options MPH2085 Human factors for patient safety MPH2086 Applying & practicing the principles of patient safety & quality improvement MPH (unit code) postgraduate units Master of Public Health consortium units</p> <p>Stream coordinator: Professor J Stoelwinder Email: just.stoelwinder@med.monash.edu.au</p>	<p>Elective options MPH2060 Policy & strategy for disease prevention & health promotion CRH1047 Health, ecology & environmental change ECX9750 Principles of health economics for developing countries (OCL)(E) MPH2057 Aboriginal health MPH2058 Managing community-based HIV programs in developing countries MPH2082 Health communications & training Minor project (7,000-8,000 words) MPH (unit code) postgraduate unit Master of Public Health Consortium units Students may cross-enrol into the following Melbourne Uni units: 505-691 International adolescent health▲ 505-692 Disability in developing countries▲</p> <p>Stream coordinator: A/Prof M Toole Ph: (03) 9828 2167 Email: mbrown@burnet.edu.au</p>

Note: **Part One core units are highlighted in blue** + **Part Two core units are highlighted in bold black.**

MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; # available in on and off campus mode; OCL = Off Campus Learning; ■Timely enrolment is encouraged as quotas apply; ◆Scheduled outside standard semester;

▲Students need to contact Melbourne University (ph 8344 9338). **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 & venue key: See [pages 40-41](#)

Recommended enrolment

Occupational and Environmental Health stream	General stream
<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2013 Research methods# MPH2022 Assessment & control of workplace hazards (E)</p> <p>Semester 1 – Year 2 MPH2041 Introduction to occupational health & safety MPH2042 Psychosocial work environment (E) Semester 2 MPH2044 Ergonomic & physical hazards (E) Elective</p> <p>Semester 1 – Year 3 MPH2076 Safety management systems (E) Elective Semester 2 Electives x 2</p> <p>FULL-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# MPH2041 Introduction to occupational health & safety MPH2042 Psychosocial work environment (E) Semester 2 MPH2013 Research methods# MPH2022 Assessment & control of workplace hazards (E) MPH2044 Ergonomic & physical hazards (E) Elective</p> <p>Semester 1 – Year 2 MPH2076 Safety management systems (E) Elective x 3</p>	<p>PART-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics# Semester 2 MPH2013 Research methods# MPH2060 Policy & strategy for disease prevention & health promotion (E)</p> <p>Semester 1 – Year 2 Elective x 2 Semester 2 Elective x 2</p> <p>Semester 1 – Year 3 Elective x 2 Semester 2 Elective x 2</p> <p>FULL-TIME Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# Elective x 2 Semester 2 MPH2013 Research methods# MPH2060 Policy & strategy for disease prevention & health promotion (E) Elective x 2</p> <p>Semester 1 – Year 2 Elective x 4</p>
<p>Elective options MPH2045 Environmental health risk assessment & management MPH2056 Injury epidemiology & prevention MPH2084 Critical appraisal of occupational health & safety infor. CRH1047 Health, ecology & environmental change Minor project (7,000-8,000 words) MPH (unit code) postgraduate units Master of Public Health consortium units</p> <p>Stream coordinator: Professor M Sim Email: malcolm.sim@med.monash.edu.au</p>	<p>Elective options MPH (unit code) postgraduate unit HSC5002 Health promotion: A determinants approach HSC5012 Strategies for health promotion HSC5022 Evaluation in health promotion HSC5031 Health promotion program planning HSC5032 Health literacy HSC5041 Significant issues in health promotion Master of Public Health Consortium units</p> <p>Stream coordinator: Professor F Cicuttini Email: flavia.cicuttini@med.monash.edu.au</p>

Note: **Part One core units are highlighted in blue** + **Part Two core units are highlighted in bold black.**
 # MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; # available in on and off campus mode; **OCL** = Off Campus Learning. **Students must complete compulsory block attendance.**
International students – a separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered in on-campus mode only for international students. Please review any variation to recommended enrolment with the Course Coordinator.
 Check unit details and prerequisites prior to enrolment. Timetable & venue key: See [pages 40-41](#)

Recommended enrolment

	Research stream
	<p>Prerequisite: Distinction (70%) average in the units: MPH1030 / MPH1040 & MPH1031 / MPH1041. Consultation with the Project Coordinator is required prior to enrolment in the research project.</p> <p>Recommended: Distinction (70%) average in the units: MPH2013 or MPH2049.</p> <p>PART-TIME</p> <p>Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1031/MPH1041 Introductory biostatistics#</p> <p>Semester 2 MPH2013 Research methods# Elective</p> <p>Semester 1 – Year 2 Elective x 2</p> <p>Semester 2 Elective x 2</p> <p>Semester 1 – Year 3 Major project (12,000-15,000 words)</p> <p>Semester 2 Major project (12,000-15,000 words)</p> <p>FULL-TIME</p> <p>Semester 1 – Year 1 MPH1030/MPH1040 Introductory epidemiology# MPH1041/MPH1041 Introductory biostatistics# Elective x 2</p> <p>Semester 2 MPH2013 Research methods# Major project (12,000-15,000 words) Elective</p> <p>Semester 1 – Year 2 Major project (12,000-15,000 words) Elective x 2</p>
	<p>Elective options MPH (unit code) postgraduate unit Master of Public Health Consortium units</p> <p>Stream coordinator: Dr B Gabbe Email: belinda.gabbe@med.monash.edu.au</p>

Note: Part One core units are highlighted in blue + Part Two core units are highlighted in bold black.

MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; # available in on and off campus mode; OCL = Off Campus Learning. **Students must complete compulsory block attendance.**

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

Please review any variation to recommended enrolment with the Course Coordinator.

Check unit details and prerequisites prior to enrolment.

Check unit details and prerequisites prior to enrolment. Timetable & venue key: See [pages 40-41](#)

Course structure

Study mode: On-campus + block, partial block or Off-campus with compulsory block requirements.

Study length: Part-time: 6 years or Full-time: 3 years.

Study structure: 4 core + 2 elective units (20%), 13 weeks supervised practice**(10%), 70,000 word research thesis (70%).

Recommended enrolment

Core units	Elective units
DPH6001 Advanced epidemiology DPH6002 Statistical methods for public health DPH6003 Advanced research methods in public health DPH6004 Health leadership & management DPH6005 Public health practice**	Two electives selected from the DEPM postgraduate units

Note:

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

Timetable & venue key: See [pages 40-41](#)

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

Entry requirement

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

Assessment

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

Professional recognition

Australasian Faculty of Public Health Medicine.

Career fields

Public Health Administrator, Academic, Occupational Physician.

Application form and enquiries

Administrative Officer

Research Degrees Office

Faculty of Medicine, Nursing & Health Sciences

Ph: (03) 9905 4313

Email: research.degrees@med.monash.edu.au

Further information

Course Coordinator: Professor Michael Abramson

Ph: (03) 9903 0573

Email: michael.abramson@med.monash.edu.au

Biostatistics

Graduate Certificate
Course Codes: 3420



Graduate Diploma
3421



Master
3422

Course structure

Study mode: Part-time, Full-time, Off-campus learning (OCL)

Study length: Graduate Certificate = Part-time: 1 year @ 2 units per semester
Not offered full-time
Graduate Diploma = Part-time 2 years @ 2 units per semester; Full-time 1 year @ 4 units per semester
Masters degree = Part-time: 3 years @ 2 units per semester; Full-time 1.5 year @ 4 units per semester
All three courses are not available to international students.

Recommended enrolment

Graduate Certificate in Biostatistics 1 core + 3 elective units	Graduate Diploma in Biostatistics 8 core units	Master of Biostatistics 10 core + 2 elective units
<p>Semester 1 MPH1040 Introductory epidemiology# EPM5002 Mathematical background for biostatistics (E)</p> <p>Semester 2 EPM5007 Design of experiments & clinical trials (E) EPM5014 Probability & distribution theory(E)</p> <p>E = elective options</p>	<p>Semester 1 MPH1040 Introductory epidemiology# EPM5002 Mathematical background for biostatistics</p> <p>Semester 2 EPM5007 Design of experiments & clinical trials EPM5014 Probability & distribution theory</p> <p>Semester 1 EPM5003 Principles of statistical inference EPM5005 Data management & statistical computing</p> <p>Semester 2 MPH5004 Linear models EPM5009 Categorical data & generalized linear models</p> <p>E = elective options</p>	<p>Semester 1 MPH1040 Introductory epidemiology# EPM5002 Mathematical background for biostatistics</p> <p>Semester 2 EPM5007 Design of experiments & clinical trials EPM5014 Probability & distribution theory</p> <p>Semester 1 EPM5003 Principles of statistical inference EPM5005 Data management & statistical computing</p> <p>Semester 2 MPH5004 Linear models EPM5009 Categorical data & generalized linear models</p> <p>Semester 1 EPM5010 Survival analysis One of either EPM5011 or EPM5015 must be chosen. EPM5011 Practical project (Full-year) OR EPM5015 Practical project (single unit) Elective</p> <p>E = elective options</p>
<p>Elective options</p> <p>Semester 1 EPM5001 Health indicators & health surveys EPM5006 Clinical biostatistics EPM5008 Longitudinal & correlated data</p> <p>Semester 2 EPM5012 Bioinformatics EPM5013 Bayesian statistical methods EPM5016 Advanced clinical trials</p>	<p>Elective options</p> <p>Semester 1 EPM5001 Health indicators & health surveys EPM5006 Clinical biostatistics EPM5008 Longitudinal & correlated data</p> <p>Semester 2 EPM5012 Bioinformatics EPM5013 Bayesian statistical methods EPM5016 Advanced clinical trials</p>	<p>Elective options</p> <p>Semester 1 EPM5001 Health indicators & health surveys EPM5006 Clinical biostatistics EPM5008 Longitudinal & correlated data</p> <p>Semester 2 EPM5012 Bioinformatics EPM5013 Bayesian statistical methods EPM5016 Advanced clinical trials</p>

Note: Students must complete compulsory unit block attendance.

available in on and off-campus mode.

Timetable & venue key: See [pages 40-41](#)

Graduate Certificate
Course Codes: 3420



Graduate Diploma
3421



Master
3422

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

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

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

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

Entry requirement

MPH1041 Introductory biostatistics or equivalent is a prerequisite.

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

Assessment

Assessment includes written assignments, practical exercises and examinations.

Career fields

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

Further information

Course Coordinator: Professor Andrew Forbes

Ph: (03) 9903 0580

Email: andrew.forbes@med.monash.edu.au

Clinical Research Methods

Graduate Certificate →

Course Codes: 3416

CRICOS codes

Graduate Diploma →

0702

13402G

Master

2311

028956F

What's NEW

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

Course structure

Study mode: Part-time, Full-time, Off-campus learning (OCL) + compulsory block requirements
International students: On-campus

Study length: Graduate Certificate = Part-time: 1 year @ 2 units per semester
Graduate Diploma = Part-time 2 years @ 2 units per semester; Full-time 1 year @ 4 units per semester
Masters degree = Part-time: 3 years @ 2 units per semester; Full-time 1.5 years @ 4 units per semester

Recommended enrolment

Graduate Certificate in Clinical Research Methods 4 core units	Graduate Diploma in Clinical Research Methods 8 core units	Master of Clinical Research Methods 10 core + 2 elective units
<p>Semester 1 MPH1040 Introductory epidemiology# MPH1041 Introductory biostatistics#</p> <p>Semester 2 MPH2013 Research methods# MPH2083 Ethics, good research practice & practical research skills</p>	<p>Semester 1 MPH1040 Introductory epidemiology# MPH1041 Introductory biostatistics#</p> <p>Semester 2 MPH2013 Research methods# MPH2083 Ethics, good research practice & practical research</p> <p>Semester 1 MPH2037 Clinical measurement MPH2077 Data management & computing</p> <p>Semester 2 MPH2036 Clinical trials MPH2039 Meta analysis & systematic reviews</p>	<p>Semester 1 MPH1040 Introductory epidemiology# MPH1041 Introductory biostatistics#</p> <p>Semester 2 MPH2013 Research methods# MPH2083 Ethics, good research practice & practical research</p> <p>Semester 1 MPH2037 Clinical measurement MPH2077 Data management & computing</p> <p>Semester 2 MPH2036 Clinical trials MPH2039 Meta analysis & systematic reviews</p> <p>Semester 1 MPH2000 Regression methods for epidemiology MPH2002 Clinical epidemiology</p> <p>Semester 2 Elective x 2</p>
NA	NA	<p>Elective options MPH2007 Chronic diseases: epidemiology & prevention MPH2018 Infectious diseases MPH2056 Injury epidemiology & prevention MPH2060 Policy & strategy for disease prevention & health promotion MPH2070 Advanced statistical methods for clinical research Minor project (8,000-10,000 words)</p>

Note: Students must complete compulsory unit block attendance.

available in on and off-campus mode.

Please review any variation to recommended enrolment with the Course Coordinator.

Check unit details and prerequisites prior to enrolment.

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

Timetable & venue key: See [pages 40-41](#)

Clinical Research Methods

Graduate Certificate	→	Graduate Diploma	→	Master
Course Codes: 3416		0702		2311
CRICOS codes		13402G		028956F

These courses assist you as a health professional with the training in the methods used to undertake sound clinical research.

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

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

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

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.

Career fields

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

Further information

Course Coordinator: Associate Professor Allen Cheng
Email: allen.cheng@med.monash.edu.au

Health Services Management

Graduate Certificate →

Course Codes: 2870

CRICOS codes

Graduate Diploma →

2314

037848B

Master

2872

038564F

Course structure

Study mode: Part-time, Full-time, Off-campus learning (OCL) + compulsory block requirements
International students: On-campus

Study length: Graduate Certificate = Part-time: 1 year @ 2 units per semester
Graduate Diploma = Part-time 2 years @ 2 units per semester; Full-time 1 year @ 4 units per semester
Masters degree = Part-time: 3 years @ 2 units per semester; Full-time 1.5 years @ 4 units per semester

Recommended enrolment

Graduate Certificate in Health Services Management 2 core + 2 elective units	Graduate Diploma in Health Services Management 7 core + 1 elective units	Master of Health Services Management 8 core + 3 elective units
<p>Semester 1 – Year 1 MPH2066 Clinical leadership & management MPH2068 Financial issues in health care management</p> <p>Semester 2 ECX9720 Introduction to epidemiology & biostatistics (E) MPH2067 Principles of health care quality improvement (E)</p>	<p>Semester 1 – Year 1 MPH2066 Clinical leadership & management MPH2068 Financial issues in health care management</p> <p>Semester 2 ECX9720 Introduction to epidemiology & biostatistics MPH2067 Principles of health care quality improvement</p> <p>Semester 1 – Year 2 MPH2069 Health systems policy Elective</p> <p>Semester 2 MPH2065 Law for health systems MPH2072 Reform & development of health services Note: ECX9720 can be taken in either first or second semester depending on elective preferred.</p>	<p>Semester 1 – Year 1 MPH2066 Clinical leadership & management MPH2068 Financial issues in health care management</p> <p>Semester 2 ECX9720 Introduction to epidemiology & biostatistics MPH2067 Principles of health care quality improvement</p> <p>Semester 1 – Year 2 MPH2069 Health systems policy Elective</p> <p>Semester 2 MPH2065 Law for health systems MPH2072 Reform & development of health services</p> <p>Semester 1 – Year 3 MPH2073 HSM case study Elective</p> <p>Semester 2 MPH2073 HSM case study Elective Note: ECX9720 can be taken in either first or second semester depending on elective preferred.</p>
<p>Elective options Semester 2 MPH2065 Law for health systems</p>	<p>Elective options Semester 1 MPH2085 Human factors for patient safety</p> <p>Semester 2 MPH2086 Applying & practicing the principles of patient safety quality improvement Students are encouraged to select electives from the DEPM postgraduate MPH units. Alternate electives include Master of Nursing units: NUR9201, NUR9215, GHS9850 or Health Informatics units: CPE7603. Further information - online Monash PG Handbook: www.monash.edu.au/pubs/handbooks</p>	<p>Elective options Semester 1 MPH2085 Human factors for patient safety</p> <p>Semester 2 MPH2086 Applying & practicing the principles of patient safety quality improvement Students are encouraged to select electives from the DEPM postgraduate MPH units. Alternate electives include Master of Nursing units: NUR9201, NUR9215, GHS9850 or Health Informatics units: CPE7603. Further information - online Monash PG Handbook: www.monash.edu.au/pubs/handbooks</p>

Note: Students must complete compulsory unit block attendance.

Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment. **International students** – A separate recommended enrolment is available for international students – please contact the Course Coordinator for details. Units are offered for international students in on-campus mode only.

Timetable & venue key: See [pages 40-41](#)

Health Services Management

Graduate Certificate Course Codes: 2870 CRICOS codes	→	Graduate Diploma 2314 037848B	→	Master 2872 038564F
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The Graduate Certificate assists you as a health care professional to expand your knowledge and skills in the management of health services. The degree provides you with the core competencies in health services management, including leadership, human resource management and financial management of health services.

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

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

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

Entry requirement

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

International Entry Requirements refer to the University International Postgraduate Course Guide or www.monash.edu.au/international/

Assessment

Assessment includes web-based tasks, written assignments, examinations, individual or group presentations.

Professional recognition

The Masters program satisfies the course requirements of the Royal Australian College of Medical Administrator's (RACMA-Fellowship), and is accredited by the Australian College of Health Service Executives (AChSE) for College entry and advancement purposes.

Career fields

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

Further information

Course Coordinator: Professor Just Stoelwinder

Phone: (03) 9903 0559

Email: just.stoelwinder@med.monash.edu.au

International Health

Course Codes:
CRICOS codes

Graduate Diploma →
1884
03077A

Master
3874
054588J

Course structure

Study mode: Part-time or Full-time

Study length: Graduate Diploma = Part-time 2 years @ 2 units per semester; Full-time 1 year @ 4 units per semester
Masters degree = Part-time: 3 years @ 2 units per semester; Full-time 1.5 years @ 4 units per semester

Recommended enrolment

<p style="text-align: center;">Graduate Diploma in International Health 4 core + 4 elective units</p>	<p style="text-align: center;">Master of International Health 6 core + 6 elective units</p>
<p>Semester 1 – Year 1 MPH1040 Introductory epidemiology# MPH1041 Introductory biostatistics#</p> <p>Semester 2 MPH2048 Primary health care in developing countries■ MPH2049 Field methods for international health■</p> <p>Semester 1 – Year 2 Elective x 2</p> <p>Semester 2 Elective x 2</p>	<p>Semester 1 – Year 1 ECX9720 Introduction to epidemiology & biostatistics MPH2055 Health ethics & human rights</p> <p>Semester 2 MPH2048 Primary health care in developing countries■ MPH2049 Field methods for international health■ OR IDA5220 The art & business of international development -TBC</p> <p>Semester 1 – Year 2 IDA4120 Community development in a globalizing world - TBC Elective</p> <p>Semester 2 EPM5023 International research bioethics Elective</p> <p>Semester 1 – Year 3 Elective x 2</p> <p>Semester 2 Elective x 2</p>
<p>Elective options</p> <p>Semester 1 ECX9750 Principles of health economics for developing countries (OCL)(E) MPH2050 Health of women & children in developing countries◆ MPH2053 Public health in refugee settings ■ ◆ MPH2055 Health ethics & human rights MPH2069 Health systems policies</p> <p>Semester 2 MPH2051 Communicable disease control MPH2054 Nutritional issues in developing countries MPH2057 Aboriginal health◆ MPH2058 Managing community-based HIV programs■ MPH2060 Policy & strategy for disease prevention & health promotion MPH2072 Reform & development of health services</p> <p>Summer MPH2082 Health communications & training■ ◆ <i>Students may cross-enrol in the following Melbourne University units:</i> 505-691 International adolescent health▲ 505-692 Disability in developing countries▲</p>	<p>Elective options</p> <p>ENV432E Environment & health contact Faculty of Arts ph: 99051444</p> <p>Semester 1 ECX9750 Principles of health economics for developing countries (OCL)(E) EPM5020 Comparative moral theory & ethics EPM5021 Research with vulnerable populations MPH2050 Health of women & children in developing countries ◆ MPH2053 Public health in refugee settings ■◆ MPH2069 Health systems policies</p> <p>Semester 2 EPM5024 Research, bioethics and law MPH2051 Communicable disease control MPH2054 Nutritional issues in developing countries MPH2057 Aboriginal health◆ MPH2058 Managing community-based HIV programs■ MPH2060 Policy & strategy for disease prevention & health promotion MPH2072 Reform & development of health services</p> <p>Summer MPH2082 Health communications & training■◆ <i>Students may cross-enrol in the following Melbourne University units:</i> 505-691 International adolescent health▲; 505-692 Disability in developing countries▲; 505-961 The global health impacts of drug use▲; 505-960 Harm reduction: controlling HIV in drug users▲ 505-963 Primary health care (India)▲ or <i>LaTrobe University units:</i> PH442HPI Health policy issues; PHE42HPA Health policy analysis</p>

Note: Students must complete compulsory unit block attendance. # available in on and Off-campus mode.
▲Students need to contact Melbourne University (8344-9338); ■Timely enrolment is encouraged as quotas apply to most international health units; ◆Scheduled outside standard semester. Please review any variation to recommended enrolment with the Course Coordinator. Check unit details and prerequisites prior to enrolment. **International students** – A separate recommended enrolment is available for international students – please contact the Course Coordinator for details.
Timetable & venue key: See [pages 40-41](#)

Course Codes: CRICOS codes

Graduate Diploma
1884
03077A

→

Master
3874
054588J

Both of these courses are offered in collaboration with the Centre for International Health at the Burnet Institute for Medical Research and Public Health. Course content is largely based on actual field experiences gained by the Burnet Institute in their wide range of health development projects in more than 20 countries in Asia, the Pacific and Africa.

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

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

Entry requirement

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

International Entry Requirements refer to the University International Postgraduate Course Guide or www.monash.edu.au/international/

Assessment

Assessment includes written assignments, examinations, practical exercises, student presentations and class participation.

Career fields

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

Further information

Course Coordinator: Associate Professor Bebe Loff
Phone: (03) 9903 0587

Email: bebe.loff@med.monash.edu.au

Graduate Diploma - Course coordinator: Dr Mike Toole
Phone: (03) 9282 2167

Email: mbrown@med.monash.edu.au

International Research Bioethics

Course Codes:
CRICOS codes

Graduate Certificate →
3873

Master
3440
048299B

Course structure

Study mode: Part-time or Full-time

Study length: Graduate Certificate = Part-time: 1 year @ 4 units
Masters degree = Full-time: 1 year @ 12 units

Recommended enrolment

Graduate Certificate in International Research Bioethics 4 core units	Master of International Research Bioethics 12 core units
<p>Semester 1 – Year 1 EPM5021 Research with vulnerable populations</p> <p>Semester 2 EPM5023 International research bioethics EPM5024 Research, bioethics & law</p> <p>Summer EPM5025 Research practicum</p>	<p>Semester 1 – Year 1 MPH1040 Introductory epidemiology # MPH1041 Introductory biostatistics # MPH2050 Health of women & children in developing countries ◆ EPM5020 Comparative moral theory & ethics EPM5021 Research with vulnerable populations ◆ CHB5233 Principles of health care ethics</p> <p>Semester 2 MPH2049 Field methods for international health ■ EPM5022 Critical appraisal skills EPM5023 International research bioethics EPM5024 Research, bioethics & law</p> <p>Summer MPH2082 Health communication & training ■ EPM5025 Research practicum</p>

Note:

MPH1040 / MPH1041 (on-campus mode) run concurrently throughout the semester; available in on and off campus mode;

▲ Students need to contact Melbourne University (8344-9338);

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

◆ Scheduled outside standard semester.

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

Timetable & venue key: See [pages 40-41](#)

International Research Bioethics

Course Codes:
CRICOS codes

Graduate Diploma
3873

→

Master
3440
048299B

The Graduate Certificate in International Research Bioethics deals in ethical issues that arise in healthcare settings, in vulnerable populations and in international settings. The Masters program is an interdisciplinary program covering comparative moral theory, research bioethics in an international setting, quantitative and qualitative research methodology, critical appraisal techniques and relevant law. Particular emphasis is given to ethical issues associated with research in developing countries in the Asia-Pacific Region. Students gain a strong theoretical framework, significant experience with ethics committees and considerable involvement with local organizations concerned with the development of bioethical policy and its implementation.

These courses are set up to articulate into the next level i.e. from Graduate Certificate (3873) to the Masters (3440) 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/

International applicants being considered for a fully funded place must be working in low or middle income countries in the Asia-Pacific region and be in a position to contribute to the strengthening of health research ethics policy and processes in their country after the course. These applicants must supply with their application:

- . a curriculum vitae
- . professional references
- . a personal statement outlining reasons for undertaking the course and benefits to your future career path
- . a letter of support from your institution or employer expressing commitments to leave your position open for the duration of the course, and to ensure that on your return to work your role in the organization will involve research bioethics.

Assessment

Assessment includes written assignments, examinations, practical exercises, student presentations and class participation.

Career fields

International Public Health Research Policy, Health Research Officer, Capacity Building in Research Ethics from a Developmental Perspective.

Further information

Course Coordinator: Associate Professor Bebe Loff

Phone: (03) 9903 0587

Email: bebe.loff@med.monash.edu.au

Occupational and Environmental Health

Graduate Certificate →

Course Codes: 2868

CRICOS codes

Graduate Diploma →

0160

037584D

Master

2312

028957E

Course structure

Study mode: Part-time, Full-time, Off-campus learning (OCL) + compulsory block requirements
International students: On-campus

Study length: Graduate Certificate = Part-time: 1 year @ 2 units per semester
Graduate Diploma = Part-time 2 years @ 2 units per semester; Full-time 1 year @ 4 units per semester
Masters degree = Part-time: 3 years @ 2 units per semester; Full-time 1.5 years @ 4 units per semester

Recommended enrolment		
Graduate Certificate in Occupational Health 4 core units	Graduate Diploma in Occupational & Environmental Health 8 core units	Master of Occupational & Environmental Health 10 core + 2 elective units
<p>Semester 1 – Year 1 MPH2041 Introduction to occupational health & safety MPH2043 Chemical & biological hazards</p> <p>Semester 2 MPH2022 Assessment & control of workplace hazards MPH2045 Environmental health risk assessment & management</p>	<p>Semester 1 – Year 1 MPH2041 Introduction to occupational health & safety MPH2043 Chemical & biological hazards</p> <p>Semester 2 MPH2022 Assessment & control of workplace hazards MPH2045 Environmental health risk assessment & management</p> <p>Semester 1 – Year 2 MPH2042 Psychosocial work environment MPH2076 Safety management systems</p> <p>Semester 2 MPH2084 Critical appraisal of occupational health & safety information MPH2044 Ergonomic & physical hazards</p>	<p>Semester 1 – Year 1 MPH2041 Introduction to occupational health & safety MPH2043 Chemical & biological hazards</p> <p>Semester 2 MPH2022 Assessment & control of workplace hazards MPH2045 Environmental health risk assessment & management</p> <p>Semester 1 – Year 2 MPH2042 Psychosocial work environment MPH2076 Safety management systems</p> <p>Semester 2 MPH2084 Critical appraisal of occupational health & safety information MPH2044 Ergonomic & physical hazards</p> <p>Semester 1 – Year 3 MPH1041 Introductory biostatistics# Elective</p> <p>Semester 2 MPH2013 Research methods# Elective</p>
		<p>Elective options MPH2060 Policy & strategy for disease prevention & health promotion CRH1047 Health, ecology & environmental change Minor project (7,000-8,000 words) MPH postgraduate units</p>

Note: Students must complete compulsory block attendance.

available in on and off campus mode.

Please review any variation to recommended enrolment with the Course Coordinator.

Check unit details and prerequisites prior to enrolment.

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

Timetable & venue key: See [pages 40-41](#)

Occupational and Environmental Health

Graduate Certificate
Course Codes: 2868
CRICOS codes

→

Graduate Diploma
0160
037584D

→

Master
2312
028957E

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

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

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

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

Entry requirement

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

International Entry Requirements refer to the University International Postgraduate Course Guide or www.monash.edu.au/international/

Assessment

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

Professional recognition

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

Career fields

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

Further information

Course Coordinator: Professor Malcolm Sim
Phone: (03) 9903 0582
Email: malcolm.sim@med.monash.edu.au

Postgraduate Teaching Staff - leaders in their field

Professor M ABRAMSON

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

Deputy Head, DEPM

Head, Clinical Epidemiology Unit

Course Coordinator: Doctor of Public Health

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

Dr B BILLAH

BSc(Hons), MSc, MAS, PhD

Senior Lecturer

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

Dr M BROOKS

BAppSci, GCertClinRes, PhD

Senior Research Fellow

- Research Governance Coordinator for the Department.
- Unit coordinator: Ethics, Good Research Practice & Practical Research Skills.
- Background: infectious diseases clinical research.

Professor P CAMERON

MBBS, MD, FACEM

• Head, Prehospital, Emergency and Trauma group, DEPM

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

Associate Professor A CHENG

MB, BS, FRACP, MPH, PhD

Course coordinator: Clinical Research Methods courses

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

Professor F CICUTTINI

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

Head, Musculoskeletal Unit, DEPM

Course Coordinator: Master of Public Health

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

Mr B CRAMMOND

BA(Hons), LLB(Hons), LLM

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

Dr D ELDER

MBChB, DGM, MRCGP, GDOH, MPH, FAFOM

Senior Lecturer

- Specialist Occupational Physician who also works in private practice.
- Interests: the rehabilitation of injured workers; assessment of chemically exposed workers and medicolegal assessments.
- Current research: surveillance of occupational respiratory disease.

Dr S EVANS

BN, GDipClinEpi, PhD

Lecturer and Senior Research Fellow

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

Dr D FISH

MBBS, FAFOEM, FAFPHM

Senior Lecturer

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

Professor A FORBES

BSc(Hons), MSc, PhD

Head, Biostatistics Unit

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

Postgraduate Teaching Staff - leaders in their field

Dr B GABBE

MAppSc, PhD

Lecturer and Senior Research Fellow

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

Dr D GODDARD

MBBS, BmedSc, DipOccupHealth, GradCert H/Ed

Senior Lecturer

- Fellow, Australasian Faculty of Occupational Medicine, RACP.
- Commenced in occupational medicine in 1973 and gained extensive experience with the railways, State Government Occupational Health Service and State Worker's Compensation system which have afforded a useful backdrop to his role as a teacher.
- In 2001, successfully nominated by his students for the Monash University Vice-Chancellor's Award for Distinguished Teaching.

Dr R HALL

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

FAFPHM, MASM

Senior Research Fellow / Lecturer

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

Professor J IBRAHIM

MBBS, GradCert HE, PhD, FAFPHM, FRACP

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

Dr Shelly JEFFCOTT

BSc(Hons), PhD (CompSci)

Senior Research Fellow

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

Dr C JOYCE

BA(Hons) MPsyCh PhD

Senior Research Fellow

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

Mrs E KENNEDY

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

Senior Lecturer

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

Associate Professor K LEDER

MBBS(Hons), FRACP, MPH, PhD

Head, Infectious Disease Epidemiology Unit

Senior Lecturer / Senior Research Fellow

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

Associate Professor B LOFF

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

Head, Human Rights & Bioethics Unit

Course Coordinator: International Research

Bioethics courses and Master of International Health

Senior Lecturer / Senior Research Fellow

- Specific areas of interest lie at the intersections of human rights and public health.

Dr D MAGLIANO

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

Lecturer and Senior Research Fellow

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

Ms K MAKAROUNAS-KIRCHMANN

BEC, MEC

Lecturer

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

Dr A NICHOL

MBBCh, BAO, DipMan, FRCARCSI

Unit Coordinator and Senior Lecturer

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

Postgraduate Teaching Staff - leaders in their field

Professor B OLDENBURG

BSc(Hons), MPsych, PhD

Chair, International Public Health Unit

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

Professor B PRIESTLY

BPharm, MPharm, PhD

- Professorial Fellow in the DEPM.
- Past appointments: Director of the Laboratories Branch in the Therapeutic Goods Administration (TGA), Scientific Director of the chemicals toxicology and chemicals risk management programs of the Commonwealth Health portfolio.

Associate Professor C REID

BA, DipEd, MSc, CertHealthEcon, PhD

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

Dr D ROBERTS

BA (Health Science), PhD

Senior Lecturer / Senior Research Fellow

- Research interests in models of care coordination and service delivery in acute and aged care.
- Past management position held in the acute sector: Mayne Health, St Vincent's and Mercy Private Hospital, Warringal Private Hospital, Peter MacCallum Cancer Institute and The Texas State Department of Health.

Professor M SIM

BMedSc, MBBS, MSc, GDipOccHyg, MSc, PhD, FAFOEM, FAFPHM, FFOM

Course Coordinator: Occupational & Environmental Health courses

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

Professor J STOELWINDER

MBBS, MD, FRACP, FRACMA, FACHSE, FAFPHM

Chair, Health Services Management, Course Coordinator

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

Ms R STUCKEY

BAppSc, GradDipErgonomics, MPH Lecturer

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

Dr A WLUKA

MBBS, FRACP, PhD, Grad CertHealthEcon

Senior Research Fellow

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

Associate Professor R WOLFE

BSc, PhD

Biostatistician

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

Dr D ZION

BA(Hons), MA, Phd(Bioethics)

Senior Lecturer / Senior Research Fellow

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

Burnet Institute, Centre for International Health

Dr M CREATI
MBBS, MPH, FRACP
Lecturer

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

Dr W HOLMES
MBBS, MSc (Community Health in Developing Countries)
Lecturer

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

Dr C MORGAN
MBBS, DTCH, FRACP
Lecturer

- International Child Health Specialist & Paediatrician.
- Has interests in primary healthcare delivery systems, international child and adolescent health, promotion of new born and young infant health, prevention of maternal death and disability and healthworker education and training.
- Substantial years of field experience from life and work in Nepal, China (Tibet) and Papua New Guinea.

Ms L NATOLI
DipApp Sc (Nursing), MPH
Lecturer

- Women's and Children's Health Advisor with the Centre for International Health.
- Field experiences in Afghanistan, Pakistan, Azerbaijan and Georgia.
- Special interest in creative and participatory approaches to health promotion.

Ms B SNELL
PhC, MAppSc (Research), PHCb
Lecturer

- Essential Drugs & Community Health Specialist.
- Wide experience in comprehensive primary health care programs in developing countries and a long association with the Victorian Aboriginal Health Service.
- Extensive experience in Eritrea, Philippines, Tibet, East Timor and India.

Dr T STEWART
MBBS, MAppEpid, FAFPHM, FACTM
Lecturer

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

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

- Medical epidemiologist & Public Health Physician.
- Extensive experience working in refugee health programs in Thailand, Somalia, Sudan and Eritrea, he spent 8 years at the U.S. 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 and Tibet.

Ms L RENKIN
BA, MPH, Diploma Professional Counselling (current) Lecturer

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

Units 2010

CHB5233 Principles of health care ethics

Dr R Sparrow

6 points + 2 contact hours per week + first semester + Clayton

Synopsis: Focus on four main ethical principles, embodying the concepts of autonomy, privacy, beneficence, and justice. Analyse and discuss a variety of broad ethical issues which arise in patient care, i.e. the allocation of health care resources, the justifiability of paternalism, breaches of patient confidentiality, in vitro fertilisation, research involving humans, and euthanasia, conscientious refusals to treat patients, and issues in family caregiving.

Assessment: Assignment (60%) + Take-home exam (40%)

CRH1047 Health, ecology and environmental change

Ms Rebecca Jones

6 points + 12 hours per week + OCL + First semester

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

Assessment: Case study analysis (20%) + Reflective essay (40%) + online discussion activities (40%)

DPH6001 Advanced epidemiology

Professor M Abramson

6 points + 2 contact hours per week + first semester + Alfred

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

Assessment: Attendance (15%) + assignments (60%) + student presentations (25%)

DPH6002 Statistical methods for public health

Associate Professor R Wolfe

6 points + OCL + 2 x 2 block days + first semester + Alfred

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

Assessment: Two assignments each (50%)

DPH6003 Advanced research methods in public health

Professor M Abramson

6 points + 2 contact hours per week + second semester + Alfred

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

Assessment: Written appraisal (20%) + oral presentation (25%) + written protocol (25%) + draft questionnaire (10%) & manuscript (20%)

DPH6004 Health leadership & management

Professor J Stoelwinder

6 points + OCL (with 15 contact hours over 2 days) + first Semester + Alfred

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

Assessment: Web-based tasks (30%) + written assignments (70%)

DPH6005 Public Health Practice

Professor M Abramson

12 points + OCL + second semester + Prerequisites: DPH6001 and DPH6002

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

Assessment: Written report (100%)

ECX9700 Introduction to health economics

Ms J Watts

6 points + 12 hours per week + first semester + OCL

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

Assessment: Online (10%) + two written assignments (each 20%) + examination (50%)

ECX9710 Pharmaceutical economics
TBC*6 points + 12 hours per week + second semester + OCL*

Synopsis: The pharmaceutical industry from an economic perspective, including the market for pharmaceuticals, its regulation internationally and within Australia. The principles of economic evaluation of the costs and outcomes of pharmaceutical products, and a guide to best practice with particular emphasis on clinical trials and economic protocol design.

Assessment: Two assignments (20% + 50% respectively) + examination (30%)

ECX9120 Introduction to microeconomic theory and policy

Dr T Rajapakse

6 points + OCL + first semester

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

Assessment: Within semester assessment: (40%) + examination: (60%)

ECX9720 Introduction to epidemiology & biostatistics

Professor F Cicuttini

6 points + 12 hours per week + first or second semester + OCL

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

Assessment: Assignments (50%) + examination (50%)

ECX9730 Economic evaluation in health care

Mr R Sweeney

6 points + 12 hours per week + second semester + OCL

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

Assessment: Written assignments (20% and 50% respectively) + examination (30%)

ECX9741 Applied health economics and health policy

Ms J Watts

6 points + 12 hours per week + summer semester + OCL + Prerequisite: ECX9 700

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

Assessment: Written assignments (50%) + examination (50%)

ECX9750 Principles of health economics for developing countries

Mr R Sweeney

6 points + 12 hours per week + second semester + 5 day block

Synopsis: 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 resource allocation. Practical aspects of individual health care project appraisal in developing countries are also addressed.

Assessment: Written assignments (50%) + examination (50%)

EPM5001 Health indicators & health surveys

Associate Professor J Simpson

*6 points + 12 hours per week + first semester + OCL +**Corequisite: MPH1040 For Biostatistics course enrolled students only unless special permission granted.*

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

Assessment: Written assignments (100%)

EPM5002 Mathematical background for biostatistics

Dr K Dear

*6 points + 12 hours per week + first or second semester + OCL**For Biostatistics course enrolled students only unless special permission granted.*

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

Assessment: Written assignments (100%)

EPM5003 Principles of statistical inference

Dr A Kirby

*6 points + 12 hours per week + first or second semester + OCL**+ Prerequisite: EPM5002, EPM5014**For Biostatistics course enrolled students only.*

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

Assessment: Written assignments + practical exercises

EPM5004 Linear models

Professors A Forbes & J Carlin

6 points + 12 hours per week + second semester + OCL +

Prerequisites: MPH1040, EPM5002, EPM5003 & EPM5014

For Biostatistics course enrolled students only.

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

Assessment: Written assignments + practical exercises

EPM5005 Data management & statistical computing

Dr C D'Este

6 points + 12 hours per week + first or second semester + OCL

For Biostatistics course enrolled students only unless special permission granted.

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

Assessment: Written assignments (100%)

EPM5006 Clinical biostatistics

Professor A Dobson

6 points + 12 hours per week + first semester + OCL +

Prerequisites: MPH1040 & EPM5002, EPM5014 + *Corequisite* EPM5003

For Biostatistics course enrolled students only.

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

Assessment: Written assignments (100%)

EPM5007 Design of experiments & clinical trials

Associate Professor P Ryan

6 points + 12 hours per week + second semester + OCL +

Prerequisites: EPM5002 + MPH1040

For Biostatistics course enrolled students only.

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

Assessment: Written assignments (100%)

EPM5008 Longitudinal & correlated data analysis

Profs. A Forbes & J Carlin

6 points + 12 hours per week + first semester + OCL +

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

For Biostatistics course enrolled students only.

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

Assessment: Written assignments + practical exercises

EPM5009 Categorical data & generalised linear models

Professor A Dobson

6 points + 12 hours per week + second semester + OCL +

Prerequisites: MPH1040, EPM5002, EPM5003, EPM5014 + *Corequisite:* EPM5004

For Biostatistics course enrolled students only.

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

Assessment: Written assignments + practical exercises

EPM5010 Survival analysis

Associate Professor G Heller

6 points + 12 hours per week + first semester + OCL +

Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004 & EPM5014

For Biostatistics course enrolled students only.

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

Assessment: Written assignments (100%)

EPM5011 Biostatistics work placement (double unit)

Professor A Forbes

12 points + 24 hours per week + full year or first semester or second semester + OCL + Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004, EPM5005, EPM5009 & EPM5014

For Biostatistics course enrolled students only.

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

Assessment: Written report (100%)

EPM5012 Bioinformatics

Professor G Wood

6 points + 12 hours per week + second semester + OCL + Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004 & EPM5014

For Biostatistics course enrolled students only.

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

Assessment: Written assignments (100%)

EPM5013 Bayesian statistical methods

Dr L Gurrin

6 points + 12 hours per week + second semester + OCL + Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004, EPM5009 & EPM5014

For Biostatistics course enrolled students only.

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

Assessment: Written assignments (80%) + practical exercises (20%)

EPM5014 Probability and distribution theory

Associate Professor R Wolfe

6 points + 12 hours per week + first or second semester + OCL + Prerequisite: EPM5002.

For Biostatistics course enrolled students only

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

Assessment: Two written assignments (each 40%) + practical written exercises (15%) + online discussion (5%)

EPM5015 Biostatistical practical project (single unit)

Professor A Forbes

6 points + 12 hours per week + first or second semester + OCL + Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014.

For Biostatistics course enrolled students only

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

Assessment: Written report (100%)

EPM5016 Advanced clinical trials

Associate Professor V GebSKI

6 points + 12 hours per week + second semester + OCL + Prerequisites: MPH1040, EPM5002, EPM5003, EPM5004, EPM5007 & EPM5014

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

Assessment: Written assignments (100%)

EPM5020 Comparative moral theory and ethics

Dr G Petterson

6 points + 2 contact hours per week + first semester + Alfred

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

Assessment: Take home examination + written assignments + oral presentation

EPM5021 Research with vulnerable populations

Dr D Zion

6 points + 5 day block + first semester + Alfred

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

Assessment: Written assignment (100%)

EPM5022 Critical appraisal skills

Dr J Black

6 points + 2 contact hours per week + second semester + Alfred

Synopsis: Provides a theoretical introduction and is followed by practical experience in critically appraising both published research findings and proposals for new research. All the principle types of public health and clinical studies are considered through guided reading and class discussion of both contemporary and 'landmark' studies.

Assessment: Written assignments (80%)
+ class presentation (20%)

EPM5023 International research bioethics

Dr D Zion

6 points + 2 contact hours per week + second semester + Alfred

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

Assessment: Written assignment (100%)

EPM5024 Research, bioethics and law

Mr B Crammond / Ms L Bishop

6 points + 2 contact hours per week + second semester + Alfred

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

Assessment: Written assignment (70%) + Group presentation (30%)

EPM5025 Research practicum

Dr D Zion / Mr B Crammond

6 points + 5 day block + summer semester + Alfred

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

Assessment: Written assignment (80%) & class presentation (20%)

HSC5002 Health promotion: A determinants approach

Professor H Keleher

6 points + off-campus learning (OCL) + compulsory 2 day workshop + first semester or second semester + Caulfield

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

Assessment: Review of literature (20%) + Case Study (20%) + Essay - Critical analysis (60%)

HSC5012 Strategies for health promotion

Dr B Lewis

6 points + off-campus learning (OCL) + compulsory 2 day workshop + second semester + Caulfield + Prerequisite + HSC5002

Synopsis: In this unit, participants will examine the range of strategies that can be used to achieve health promotion goals and objectives, and consider their strengths and weaknesses when applied to different needs, populations groups and settings. Case studies will be used to illustrate the application of strategies in clinical settings, schools, worksites and the wider community, and for projects with high needs and hard-to-reach groups. Techniques and implementation models that can improve the delivery and sustainability of strategies will be examined. Case studies of staged multi-faceted projects will be presented.

Assessment: Review (30%) + Presentation (20%) + Critical analysis (50%)

HSC5022 Evaluation in health promotion

Dr B Smith

6 points + off-campus learning (OCL) + compulsory 2 day workshop + second semester + Caulfield + Prerequisite: HSC5002

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

Assessment: Comparison and analysis of evaluation design options (30%) + Development of impact measurement instrument (30%) + Evaluation plan (40%)

HSC5031 Health promotion program planning

Dr B Smith

6 points + off-campus learning (OCL) + compulsory 2 day workshop + first semester + Caulfield + Prerequisite / Co-requisite: HSC5002

Synopsis: This unit provides participants with the opportunity to develop their knowledge and skills in program planning for health promotion. Participants 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 strengths and weaknesses of alternative models that can guide health promotion planning will be explored, and the links between systematic planning and thorough evaluation will be highlighted.

Assessment: Comparative analysis of needs assessment strategies (40%) + Evidence review (20%) + Development of program plan (20%)

HSC5032 Health Literacy

Professor H Keleher

6 points + on-campus 4 day intensive block (24 hrs) + private study + second semester + Caulfield + Prerequisite: HSC5002

Synopsis: This unit will introduce students to health literacy concepts measurement, research, and strategies for the advancement of health communication to address low literacy.

Assessment: Critical review (40%) + Project plan (20%) + Health literacy project (40%)

HSC5041 Significant Issues for Health Promotion

Dr C Livingstone

6 points + on-campus 4 day intensive block (24 hrs) + private study + first semester + Caulfield + Prerequisite / Co-requisite: HSC5002

Synopsis: In this unit students will examine the influence of social policies on health, and the social underpinnings of health inequalities through a focus on chronic disease, mental health, marginalized communities and communicable diseases.

Assessment: Essay (2,500 words) (40%) + Policy analysis essay (1,000 words) (20%) + Critical appraisal (2,500 words) (40%)

IDA4120 Community development in a globalising world

B Missingham

6 points + 3 contact hours per week + first semester + Clayton

Synopsis: This unit introduces students to the leading approaches to community development in international and sustainable development. The unit emphasises contemporary theory and thinking on community development, coupled with an orientation to professional practice in real contexts, both internationally and locally. The impacts of globalisation are examined, both in terms of its negative consequences, but also in terms of creating new possibilities for activism and solidarity. The unit also focuses on the skills and methods of community development facilitators, and fosters and develops those skills in students through group activities such as simulations, role-plays, case studies and fieldtrips.

Assessment: Class activities and discussions (20%) + Small group-lead simulation, role play activity (30%) + Essay/Project Proposal (4000 words) (50%)

IDA5220 The Art and Business of International Development

C Thorburn

6 points + 3 contact hours per week + second semester + Clayton Campus

Synopsis: This unit offers a practical, hands-on approach for learning a range of applied skills needed by professionals in international development organizations. It will introduce students to the working culture of institutions involved in international aid and development. The unit will cultivate knowledge of the range of organisations and institutions involved in international development, funding requirements of aid agencies, development management skills such as the logical framework (logframe) approach, and project proposals writing, monitoring and evaluation.

Assessment: Individual presentation (20%) + Group preparation of logical framework (30%) + Project proposal (50%)

MPH1003 Environmental influences on health

Professor M Sim

6 points + 2 contact hours per week + second semester + Melbourne University Campus. Prerequisite: MPH1030/MPH1040 & MPH1031/MPH1041

Synopsis: Environmental influences on health including infectious diseases & occupational hazards. Physical, chemical & biological hazards. Principles of environmental & occupational hazard assessment & control, including risk. Methods of hazard management. How to communicate environmental hazard & risk data.

Assessment: Case study (30%) + written assignment (40%) + multiple choice examination (30%)

MPH1016 Health promotion

Dr S McIver

6 points + 2 contact hours per week + second semester + Melbourne University Campus

NB: Students completing MPH1016 cannot undertake MPH2082

Synopsis: Theories & models of health promotion. Planning & implementation strategies including education & information advocacy, social marketing, legislation/regulation, mediation & community development. Settings for health promotion including community, neighbourhoods, schools, general practice, hospitals, workplace & home. Managing & maintaining health promotion programs. Monitoring & evaluating health promotion processes & outcomes. Current issues in health promotion e.g. efficacy of intersectoral health promotion, economic & social benefit, public Vs private actions, & behaviourist Vs structuralist approach.

Assessment: Two assignments (100%)

MPH1030 Epidemiology & demography

Professor F Cicuttini

6 points + 2 contact hours per week + first semester + Melbourne University Campus + Corequisite: MPH1031

To be taken concurrently with MPH1031. Together they are prerequisites for clinical epidemiology elective units.

Synopsis: Introduction to descriptive & analytical epidemiology, demography, case-control studies, cohort studies, clinical trials, risk & causation, bias, confounding, health program evaluation & measurement theory.

Assessment: Written assignments (25%) + mid semester examination (35%) + end semester examination (40%)

MPH1031 Introductory statistics

Dr J Simpson

6 points + 2 contact hours per week + first semester + Melbourne University Campus + Corequisite: MPH1030

To be taken concurrently with MPH1030. Together they are prerequisites for clinical epidemiology elective units.

Synopsis: Descriptive statistics, graphs & tables. Theoretical & empirical probability distributions, chi-square, student's-t, binomial, Poisson & standard normal. Basic statistics, mean, median, mode, minimum, maximum, standard deviation & proportion. Standard errors, confidence intervals & their construction. Paired & unpaired t-tests. Chi-square & Fisher's exact for contingency tables. Non-parametric tests, correlation & bivariate regression. Relative risks & Odds ratio.

Assessment: Mid semester examination (25%) + end semester examination (50%) + assignment (25%)

MPH1040 Introductory epidemiology

Dr D Magliano

6 points + 2 compulsory contact hours per week on-campus or OCL + 2 day compulsory (must attend) block + first semester + Alfred + Corequisite: MPH1041

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

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

Assessment: Assignments (30%) + examination (70%)

MPH1041 Introductory biostatistics

Dr B Billah

6 points + 2 contact hours per week on-campus or OCL + 2 day block + first semester + Alfred + Corequisite: MPH1040
Recommended: Microsoft excel 'Data analysis' or any statistical package (e.g. SPSS, STATA), help will be provided for excel and SPSS users.

To be taken concurrently with MPH1040. Together they are prerequisites for clinical epidemiology elective units.

Synopsis: Classification of medical data; data summary; statistical distributions (e.g. Bernoulli, binomial, normal t and chisquare distributions), sampling distribution for sample statistic (e.g. sample mean and sample proportion), standard error, difference between standard deviation and standard error; comparing two or more treatments/methods or two or more groups of patients using confidence interval and hypothesis test; evaluating association between exposure and outcome; relative risk and odds ratio; correlation and regression analyses (linear and logistic regression); sample size calculation for study design.

Assessment: Written assignments (90%) and tutorial/online participation/activities (10%).

MPH2000 Regression methods for epidemiology

Associate Professor R Wolfe

6 points + off-campus learning (OCL) + 2 x 2 block days + first semester + Alfred + Prerequisites: credit grade average in MPH1040 & MPH1041 or MPH1030 & MPH1031

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

Assessment: Two assignments each (50%)

MPH2002 Clinical epidemiology

Professor M Abramson

6 points + off-campus learning (OCL) + 2 day block + first semester + Alfred + Prerequisite: MPH1040 & MPH1041 or MPH1030 & MPH1031

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

Assessment: Written / online weekly assessment tasks (50%) + final assignment (50%)

MPH2007 Chronic disease: epidemiology & prevention

Dr R Hall

6 points + off-campus learning (OCL) + 2 day block + first semester + Alfred + Prerequisites: MPH1040 & MPH1041 or MPH1030 & MPH1031

Synopsis: Features of chronic diseases relevant to epidemiological study. Traditional study designs (cross-sectional surveys, case-control, cohorts, RCTs), including their strengths, weaknesses, methodological limitations and practical issues. Introduction to methodological issues in exposure assessment & outcome assessment. Evaluation of screening for chronic disease. Introduction to disease registries, their purpose, benefits & limitations, and the use of registries for clinical practice improvement. Introduction to the concept of translational evidence & epidemiological modelling, its purpose & use in chronic disease & tools used. Introduction to advanced statistical methods relevant for chronic disease epidemiology. Principles of chronic disease control & prevention starting at risk factors & determinants.

Assessment: Written assignments (100%)

MPH2013 Research methods

Dr A Wluka

6 points + second semester + Alfred + Prerequisite: MPH1040 + MPH1041 or MPH1030 + MPH1031 + one of the following options - **Option 1:** 2 contact hours per week; **Option 2:** off-campus learning (OCL) + 2 day block. Note: these options are not interchangeable.

NB: Students completing MPH2013 cannot undertake MPH2049.

Synopsis: Practical skills for design, conduct & analysis of a research project. Introduction to research methods & critical appraisal of published literature. Issues in protocol design including study type selection, performing a literature review, sampling methods & ethics approval. Provides an introduction to planning data management & statistical analysis.

Assessment: Assignments (40%) + Written critique (60%).

MPH2018 Infectious disease epidemiology

Associate Professor K Leder

6 points + off-campus learning (OCL) + 3 block days + second semester + Alfred + Corequisite: MPH1040 or MPH1030

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, bioterrorism, vaccines, exotic and emerging diseases.

Assessment: online participation (50%) + oral presentation (50%)

MPH2022 Assessment and control of workplace hazards

Dr D Elder

6 points + OCL (with 20 contact hours over 3 days) + second semester + Alfred

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

Assessment: Multiple choice tests (50%) + web-based tasks (20%) + workbook (5%) + written assignment (25%)

MPH2025 Principles & practice of public health

Associate Professor B Marshall

6 points + 2 contact hours per week + first semester + Melbourne University Campus

Synopsis: Different theories & disciplinary perspectives in the forming of public health principles & practices in western societies, past & present. Theories of knowledge, social movements, political & social organizations, natural & human disasters, disease shaping contemporary public health perspectives & practices. Current organizational structures for public health policy development, service delivery at local, state & national levels. Foundation for contextual understanding of public health research, policy development, program planning & implementation.

Assessment: Assignments (100%)

MPH2031 Public health policy

Professor V Lin

6 points + 2 contact hours per week + first semester + Melbourne University Campus, MPH2031 can be replaced by MPH2069

Synopsis: Health policy, governmental institutions & their roles in public health, legislative processes & participants in them. Initiation & formulation of policy, planning, common approaches, stakeholders & their role in public health planning. Institutional imperatives in planning process, strategies for influencing development of public health plans & case studies. Public health plans, planning at state, regional & local levels. Processes of development, implementation & evaluation.

Assessment: Assignments (100%)

MPH2034 Social & cultural perspectives in public health

Dr B Rumbold

6 points + 2 contact hours per week + second semester + Melbourne University Campus

Synopsis: Social, political & scientific role of public health in modern health care system. Origins of public health movement, changing focus of public health movement in the last two centuries & role of public health in present Australian health care system. Stance of public health with respect to social inequalities in health, scientific & technological change, economic forces, issues of professionalisation & relationship with other health-related disciplines including preventive as opposed to curative health care.

Assessment: Mini projects (30%) + essay (70%)

MPH2035 Health economics & program evaluation

Dr A Hsueh / R McKenzie

6 points + 2 contact hours per week + second semester + Melbourne University Campus

Synopsis: Contribution of health economics & health program evaluation to practice of public health. Key economic concepts & their role in increasing welfare, health care as an economic commodity, value of economic analysis in promoting an efficient & equitable health care system. Role of economic appraisal in evaluation of health care services & evaluation strategies appropriate to particular stages of program cycle. Differences between process, impact, outcome evaluation & different types of evaluation design.

Assessment: Assignments (100%)

MPH2036 Clinical trials

Professor C Reid

6 points + off-campus learning (OCL) + 2 day block + second semester + Prerequisites: MPH1040 & MPH1041 / MPH1030 & MPH1031

Synopsis: Design, implementation & analysis of randomised controlled clinical trials. Formulation of research question, selection & recruitment of study subjects, comparability of groups, randomisation, defining maneuver for developing & executing measurements, interpreting findings, managing outcomes & considering issues of ethics, budget & quality assurance.

Assessment: Written assignments (80%) + participation online (20%)

MPH2037 Measurement in clinical research

Dr A Nicol

6 points + 2 contact hours per week or off-campus learning (OCL) + 2 day block + first semester + Alfred + Prerequisites: MPH1040 & MPH1041 / MPH1030 & MPH1031

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

Assessment: Written online assessment (50%) + final assignment (50%).

MPH2039 Meta analysis and systematic reviews

Professor M Abramson

6 points + off-campus learning (OCL) + 2x1 day block + second semester + Alfred + Prerequisites: MPH1040 & MPH1041 / MPH1030 & MPH1031

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

Assessment: Group presentation of a systematic review (50%) + individual critical appraisal of a published literature review (50%)

MPH2041 Introduction to occupational health & safety

Ms R Stuckey

6 points + OCL (with 15 contact hours over 3 days) + first semester + Alfred

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

Assessment: Web-based tasks (20%) + assignments (50%) + examination (30%)

MPH2042 Psychosocial work environment

Dr D Elder

6 points + OCL (with 20 contact hours over 3 days) + first semester + Alfred

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

Assessment: Web-based tasks + assignments + examinations.

MPH2043 Chemical and biological hazards

Dr D Goddard

6 points + OCL (with 20 contact hours over 4 days) + first semester + Alfred

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

Assessment: Multiple choice tests & short answer test (2 x 10%) + web-based tasks (20%) + short essay (15%) + written assignment (25%) + presentation (20%).

MPH2044 Ergonomic & physical hazards

Dr D Fish

6 points + OCL (with 20 contact hours over 3 days) + second semester + Alfred

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

Assessment: Multiple choice tests (15%) + assignments (45%) + examinations (30%) + web based tasks (10%)

MPH2045 Environmental health risk assessment & management

Professor B Priestly

6 points + OCL (with 15 contact hours over 3 days) + second semester + Alfred

Synopsis: Australian (en-Health) and other frameworks for health risk assessment (HRA); risk management & risk communication; hazard identification, with particular reference to air, water, soil & food contaminants; sustainable development; industry stewardship; exposure & dose-response modeling; biomarkers; influences on community perception of environmental risk (including the role of the media); strategies for effective risk communication.

Assessment: Written assignments (60%) + examination (40%)

MPH2047 Child public health

Ms B Laidlaw

6 points + 5 day intensive block & + second semester + Centre for Community Child Health, Flemington

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

Assessment: Written assignments (70%) + Oral presentation (30%)

MPH2048 Primary health care in developing countries

Dr C Morgan

6 points + 6x4 weekday contact hours and 1x7 weekend contact hours + first semester or second semester + 5 day block + Alfred + Prerequisites or Corequisites: MPH1040 & MPH1041/MPH1030 & MPH1031 + Prerequisite: Basic computer proficiency

Synopsis: History, principles & practice of primary health care in developing countries. Global players, context & influences on health development. PHC & health systems. PHC & community engagement. Emerging trends in PHC.

Assessment: Written task (70%) + take home short answer examination (30%)

MPH2049 Field methods for international health planning & evaluation

Dr T Stewart

6 points + 4x3 weekday contact hours and 2x7 weekend contact hours OR 5 day block + first semester or second semester + 5 day block + Alfred + Prerequisites: MPH1040 & MPH1041/MPH1030 & MPH1031 + Prerequisite: Basic computer proficiency

Synopsis: Rapid appraisal of community health needs; public health surveillance; population surveys; survey sampling methods; measuring mortality; measurement of the burden of disease; program monitoring; using health data for decision making; evaluation of health programs; & applied health research.

Assessment: Written assignment (100%)

MPH2050 Health of women and children in developing countries

Dr W Holmes

6 points + 6 day block + first semester + Alfred + Prerequisite: Basic computer proficiency

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

Assessment: Assignments (40%) + group presentation (10%) + short answer examination (40%) + participation (10%)

MPH2051 Communicable disease control in developing countries

Dr M Creati

6 points + 5x4 weekday contact hours and 1x7 weekend contact hours + second semester + Alfred + Prerequisite: Basic computer proficiency

Synopsis: Epidemiology of communicable diseases of public health importance in developing countries, including major environmental & pathogenic causes. Design & management of appropriate communicable disease prevention, control strategies using both theoretical models & practical examples, preparedness for & control of epidemics & appropriate use of resources. Development of systems to provide adequate water, sanitation, vector control & treatment services.

Assessment: Exercise (15%) + essay (45%) + short answer examination (40%)

MPH2053 Public health in refugee settings

Associate Professor M Toole

6 points + 7 day intensive block + first semester + Burnet + Prerequisites: MPH1040 & MPH1041 or MPH1030 & MPH1031 + Prerequisite: Basic computer proficiency

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

Assessment: Short answer examination (50%) + written assignment (50%)

MPH2054 Nutritional issues in developing countries

Associate Professor M Toole

6 points + 3x2 weekday contact hours and 3x7 weekend contact hours + second semester + Alfred + Prerequisite: Basic computer proficiency

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

Assessment: Written assignment (50%) + short answer examination (50%)

MPH2055 Health ethics & human rights

Mr B Crammond

6 points + 2 contact hours per week + first semester + Alfred

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

Assessment: Written assignment mid-semester (30%) + Written assignment end-semester (70%)

MPH2056 Injury epidemiology & prevention

Professor P Cameron / Dr B Gabbe

6 points + 5 day intensive block + second semester + Alfred

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

Assessment: Written assignment + oral presentation

MPH2057 Aboriginal health

TBC

6 points + 5 day intensive block + second semester + VACCHO + Prerequisite: Basic computer proficiency

Synopsis: Overview of Aboriginal health, especially in Victoria from historical, socio-economic & cultural contexts of ill-health in the Aboriginal community. Introduction to major health issues outlining practical information about appropriate health care delivery & role of community-controlled health services.

Assessment: Group project (15%) + participation (5%) + assignment (80%)

MPH2058 Managing community-based HIV programs in developing countries

Ms L Renkin

6 points + 7 day intensive block + second semester + Burnet + Prerequisite: Basic computer proficiency

Synopsis: Issues involved in assessing risk of HIV transmission in a community. Developing & managing a multisectoral response to HIV/AIDS, including prevention of infection & health care needs of persons with AIDS, global HIV/AIDS situation, key determinants of infection & relative success of various approaches to AIDS epidemic in affected countries. Elements of a community HIV/AIDS situation & components of a community-based HIV/AIDS prevention & care program.

Assessment: Written assignment (60%) + short answer examination (40%)

MPH2060 Policy and strategy for disease prevention and health promotion

Professor B Oldenburg

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + second semester + Alfred

Synopsis: This unit will examine policy and systemic approaches to disease prevention and health promotion. The major global causes of disease burden and their risk factors will be examined with respect to policy and strategy. Students will reflect on the complex interplay between evidence, policy and practice in developing approaches to prevention. International case studies from developing and developed countries will be used to convey examples of novel approaches and quality practice.

Assessment: Written assignments (70%) + Online participation (30%)

MPH2065 Law for health systems

Mrs E Kennedy

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + second semester + DEPM

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

Assessment: Web-based tasks (50%) + written assignments (50%)

MPH2066 Clinical leadership & management

Professor J Stoelwinder

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + first semester + DEPM

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

Assessment: Web-based tasks (50%) + written assignments (50%)

MPH2067 Principles of health care quality improvement

Dr S Evans

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + second semester + Alfred

Synopsis: Historical, political & social factors impacting on quality measurement in health care. Relationship of industrial & health care quality monitoring. Epidemiological & statistical quality measurement principles. Strengths & limitations of current monitoring techniques & different sources of health care quality data. Principles of clinical indicator programs, adverse event monitoring, satisfaction surveys & benchmarking. Relationship between Evidence Based Medicine, Clinical Practice Guidelines & quality improvement. Design, implementation & evaluation of quality improvement programs in clinical settings.

Assessment: Web-based tasks (50%) + written assignments (50%)

MPH2068 Financial issues in health care management

Ms K Makarounas-Kirchmann / Dr J Grafton

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + first semester + Alfred

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

Assessment: Web-based tasks (50%) + written assignment (25%) + Web-based test (25%)

MPH2069 Health systems policy

Professor B Oldenburg / Dr C Joyce

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + first semester + Alfred

NB: Students completing MPH2069 cannot undertake MPH2031

Synopsis: This unit involves a structured review of the processes of developing and making policy. It considers Australian and international perspectives, including the role of governments, key challenges for national health systems, and key current issues in global and Australian health policy.

Assessment: Web-based tasks (50%) + written assignments (50%)

MPH2070 Advanced statistical methods for clinical research

Associate Professor R Wolfe

6 points + off-campus learning (OCL) on-line using WebCT + 3 block days + second semester + Alfred + Prerequisites: MPH2000 + credit grade in MPH1040 and MPH1041 or MPH1030 and MPH1031

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

Assessment: Two written assignments (50% each)

MPH2072 Reform & development of health services

Dr D Roberts/Professor J Stoelwinder

6 points + off-campus learning (OCL) on-line using WebCT + 2 block days + second semester + Alfred + Recommended: MPH2069

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

Assessment: Web-based tasks (50%) + written assignments (50%)

MPH2073 Case study in health services management

Professor J Stoelwinder/Professor F Cicuttini

12 points + 2 supervision hours & 10 research hours per week + full year (Special consideration may be given to complete the unit in one semester - apply to the Unit Coordinator) + off-campus learning (OCL)

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

Assessment: Written report (100%)

MH2076 Safety management systems

Dr N Betts

6 points + off-campus learning (OCL) + 15 contact hours over 3 days + first semester + Alfred + Prerequisite: MPH2041

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

Assessment: Online discussions + assignments

MPH2077 Data management & computing

TBC

6 points + 2 contact hours per week + first semester + DEPM

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

Assessment: Assignments (70%) + written examination (30%)

MPH2082 Health communications & training

Ms L Natoli

*6 points + 6 day intensive block + summer semester + Burnet + Prerequisite: Basic computer proficiency**NB: Students completing MPH2082 cannot undertake MPH1016.*

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

Assessment: Assignment (75%) + group work (25%).

MPH2083 Ethics, good research practice & practical research skills

Dr M Brooks

6 points + off-campus learning (OCL) on-line using WebCT + 2 day block + second semester + Alfred

Synopsis: This unit will provide students with an introduction to the ethical, legal & practical issues that relate to clinical research & the national & international guidelines relevant to this research. Participants will undertake activities designed to build confidence in planning & undertaking clinical research that complies with ethical guidelines & good research practise benchmarks.

Assessment: Assignment (70%) + online discussion (30%)

MPH2084 Critical appraisal of occupational health & safety information

Professor M Sim

6 points + off-campus learning (OCL) + 18 contact hours over 3 days + second semester + Alfred

Synopsis: This unit will give students skills in accessing and interpreting relevant occupational and environmental health information. This unit will include a sound understanding of the methods used in the design & analysis of epidemiological studies related to workplace hazards, methods used in systematic reviews and methods used to search the OEH literature and other data sources.

Assessment: Short answer examination during block week (30%) + Three written exercises (60%) + On-line discussion (10%)

MPH2085 Human factors for patient safety

Dr S Jeffcott

6 points + off-campus learning (OCL) + on-line using WebCT + 2 block days + first semester + Alfred

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

Assessment: Critical appraisal of 2000 words (35%) + Reflective assignment of 2000 words (35%) + Class participation (30%)

MPH2086 Applying & practicing the principles of patient safety & quality improvement

Professor J Ibrahim

6 points + off-campus learning (OCL) + on-line using WebCT + 2 block days + second semester + Alfred

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

Assessment: Critical appraisal of 500 words (35%) + Reflective assignment of 1500 words (30%) + Class participation (40%)

DEPM timetable Semester 1, 2010

DEPM proposed timetable Semester 1, 2010

Timetable is subject to changes, check room allocation and updates on www.med.monash.edu.au/epidemiology/pgrad/

2 March - 4 June (Vacation: 2-9 April)

MPH Units	Coordinator	Mode	Date/Time	Venue	Stream	
MPH1030	Epidemiology & Demography#	F Cicuttini	Weekly	Wed 1.15 - 5.45pm#	Melb Uni - Carlton	MPH
MPH1031	Introductory Statistics#	J Simpson	Weekly	Wed 2.15 - 5.45pm#	Melb Uni - Carlton	MPH
MPH1040	Introductory Epidemiology (lecture)	D Magliano	Weekly	Thur 9-10	AMREP SR	CE
	Introductory Epidemiology*	D Magliano	OCL & Compulsory 2 day block	4-5 March	AMREP CR 2	CE
MPH1040/MPH1041	Introductory Epidemiology and Biostatistics Tute	D Magliano/B Billah	Weekly	11.30am - 1pm	2 x MRs + 2 x CRs	CE
MPH1041	Introductory Biostatistics (lecture)	B Billah	Weekly	Thur 10-11.15	AMREP SR	CE
	Introductory Biostatistics*	B Billah	OCL & 2 day block	13-14 April	AMREP CR 2	CE
MPH2000	Regression Methods for Epidemiology	R Wolfe	OCL & 2X2 day block	18-19 Mar +TBC Apr	AMREP CR 3	CE
	Regression Methods for Epidemiology				AMREP CR 3	CE
MPH2002	Clinical Epidemiology	M Abramson	OCL & 2 day block	24 march + 20 May	AMREP CR 3	CE
MPH2007	Chronic Diseases: Epidemiology & Prevention	R Hall	OCL & 2 day block	11-12 March	AMREP CR 3	CE
MPH2025	Principles & Practice of Public Health #	E Miller	Weekly	Thu 5.15 - 7.15pm	Melb Uni - Carlton	MPH
MPH2031	Public Health Policy#	V Lin	Weekly	Thu 2.15 - 4.15pm	Melb Uni - Carlton	MPH
MPH2037	Clinical Measurement	A Nichol	OCL & 2 day block	22 - 23 March	AMREP CR 1	CE
MPH2041	Introduction to Occupational Health & Safety	R Stuckey	OCL & 3 day block	3-5 May†	AMREP CR 2	OEH
MPH2042	Psychosocial Work Environment	D Elder	OCL & 3 day block	29-31 March	AMREP CR 2	OEH
MPH2043	Chemical & Biological Hazards	D Goddard	OCL & 4 day block	27-30 April	AMREP CR 2	OEH
MPH2048	Primary Health Care in Dev. Countries ■	C Morgan	6x4 w/day hrs 1x7 w/end hrs	Tues 2-5.30pm; Sat 9-5pm†	Burnet	IH
MPH2049	Field Methods for IH Planning & Evaluation ■	T Stewart	3x3 w/day hrs 3x7 w/end hrs	Tues 1-4pm: Sat 9-5pm†	Burnet	IH
	Field Methods for IH Planning & Evaluation ■	T Stewart	5 day block	19-23 April	Burnet	IH
MPH2050	Health of Women & Children in Developing Countries	W Holmes	6 Day Block	8-15 June	AMREP CR 2	IH
MPH2053	Public Health in Refugee Settings ■ ▲	M Toole	7 day block	9-17 February	Burnet	IH
MPH2055	Health Ethics & Human Rights	B Crammond/ L Bishop	Weekly	Wed 10-12noon	AMREP CR 2	IH
MPH2066	Clinical Leadership & Mgmt	J Stoelwinder	OCL & 2 block days	1 March + 10 May	DEPM SR	HSM
MPH2068	Financial Issues in Health Care Management	K Makarounas-Kirchmann/J Grafton	OCL & 2 block days	2 March + 17 April	2 Mar - DEPM SR + 17 Apr - AMREP SR	HSM
MPH2069	Health Systems Policy	B Oldenburg / C Joyce	OCL & 2 block days	3 March + 12 May	DEPM SR	HSM
MPH2073	Case Study**	J Stoelwinder / F Cicuttini	Off Campus			HSM
MPH2076	Safety Management Systems	N Betts	OCL & 3 day block	6-8 May	AMREP SR 3	OEH
MPH2077	Data Management Systems	TBC				
MPH2085	Human Factors for Patient Safety	S Jeffcott	OCL & 2 block days	15 March + 17 May	AMREP CR 1	HSM
Other Units						
CHB5233	Principles of Health Care Ethics	J Asscher	Weekly	check Monash timetable		IRB
CRH1047	Health, Ecology & environmental change	R Jones	OCL	check Monash timetable		MPH
DPH6001	Advanced Epidemiology	M Abramson	OCL & 2 day block	4-5 March	AMREP CR	DPH
DPH6002	Statistical Methods for Public Health	R Wolfe		as per MPH2000		DPH
DPH6004	Health Leadership & Management	J Stoelwinder	OCL & 2 block days	1 March + 10 May	DEPM SR	DPH
DPH6005	Public Health Practice	M Abramson	OCL			DPH
ECX9700	Introduction to Health Economics	J Watts	OCL			MPH
ECX9120	Intro to Microeconomic Theory & Policy	J Watts	OCL			MPH
ECX9720	Introduction to Epidemiology & Biostatistics	F Cicuttini	OCL			G
ECX9750	Principles of Health Economics for Developing Countries	R Sweeney	one week block	17-21 May	check Monash timetable	MPH
EPM5001	Health Indicators & Health Surveys	J Simpson	OCL	For Biostatistics course students only		BS
EPM5002	Mathematical Background for Biostatistics	K Dear	OCL	For Biostatistics course students only		BS
EPM5003	Principles of Statistical Inference	A Kirby	OCL	For Biostatistics course students only		BS
EPM5005	Data Management & Statistical Computing	C D'Este	OCL	For Biostatistics course students only		BS
EPM5006	Clinical Biostatistics	A Dobson	OCL	For Biostatistics course students only		BS
EPM5008	Longitudinal & Correlated Data Analysis	A Forbes	OCL	For Biostatistics course students only		BS
EPM5010	Survival Analysis	G Heller	OCL	For Biostatistics course students only		BS
EPM5011	Biostatistical Practical Project (double unit)**	A Forbes	OCL	For Biostatistics course students only		BS
EPM5014	Probability & Distribution Theory	R Wolfe	OCL	For Biostatistics course students only		BS
EPM5015	Biostatistical Practical Project (single unit)	A Forbes	OCL	For Biostatistics course students only		BS
EPM5020	Comparative Moral Theory & Ethics	G Petterson	Weekly	Friday 2-4pm	AMREP CR 1	IRB
EPM5021	Research with Vulnerable Populations	D Zion	5 day block	21-25 June	AMREP CR 2	IRB
IDA4120	won't be offered in 2010	B Missingham	Weekly	Mon 9am-12pm	Clayton Campus	
HSC5002	Health Promotion: A Determinants Approach	H Keleher	OCL + 2 day block	check Monash timetable	Caulfield Campus	MPH
HSC5031	Health Promotion Program Planning	B Smith	OCL + 2 day block	check Monash timetable	Caulfield Campus	MPH
HSC5041	Significant Issues for Health Promotion	C Livingstone	oncampus 4 day block	check Monash timetable	Caulfield Campus	MPH

** full year unit ■ Timely enrolment is encouraged as quotas apply to most international health units ▲ Scheduled outside standard semester

† attached OR Contact Burnet Institute (9282 2163) 2 months prior for dates or check www.med.monash.edu.au/epidemiology/pgrad/

OCL = off-campus learning mode of study (Distance Education)

*see MPH Consortium Timetable on webpage listed below

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

DEPM SR = Seminar Room, MR317 Meeting Room 317, RM380, 3rd floor, Burnet Building, Alfred Hospital, Commercial Rd (near Punt Rd), Melbourne

Melb Uni - Carlton = The University of Melbourne, School of Population Health Building, 207 Bouverie St., Carlton

MMS = Monash Medical School Lecture Theatre & Tute Rooms, Monash University, Alfred Hospital, Commercial Rd (closest intersection is St Kilda Road) - see enclosed map

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

VACCHO 5-7 Smith St, Fitzroy

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

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

DEPM proposed timetable Semester 2, 2010

Timetable is yet to be approved, check room allocation and updates on www.med.monash.edu.au/epidemiology/pgrad/

19 July - 22 October (Vacation: 27 Sept - 1 October)

MPH Units	Coordinator	Mode	Date/Time	Venue	Stream
MPH1003 Environmental Influences on Health#	M Sim	Weekly	Thu 2.15-4.15pm	Melb Uni - Carlton	MPH
MPH1016 Health Promotion	S McIvor	Weekly	Wed 5.15-7.15pm	Melb Uni - Carlton	MPH
MPH2013 Research Methods	A Wiuka	Option 1 - Weekly	Thur 9-11am	AMREP CR 1 + 2 x MR	CE
MPH2013 Research Methods	A Wiuka	Option 2 - OCL & 2.5 day block	29-30 July	DEPM SR	CE
MPH2018 Infectious Disease: Epidemiology & Prevention	K Leder / R Hall	OCL & 3 block days	22 July, 2 Sept, 7 Oct	AMREP CR 2	CE
MPH2022 Assessment & Control of Workplace Hazards	D Elder	OCL & 3 day block	13-15 September	AMREP CR 2	OEH
MPH2034 Social & Cultural Perspectives in Public Health	B Rumbold	Weekly	Wed 2.15-4.15pm	Melb Uni - Carlton	MPH
MPH2035 Health Economics & Program Evaluation	A Hsueh / R McKenzie	Weekly	Thu 5.15-7.15pm	Melb Uni - Carlton	MPH
MPH2036 Clinical Trials	C Reid	OCL & 2 day block	2-3 August	AMREP CR 1	CE
MPH2039 Meta Analysis and Systematic Reviews	M Abramson	OCL & 2 x 1 day block	5 Aug + 14 October	AMREP CR 2	CE
MPH2044 Ergonomic & Physical Hazards	D Fish	OCL & 3 day block	25-27 August	AMREP CR 2	OEH
MPH2045 Environmental Health Risk Assessment and Mgmt	B Priestly	OCL & 3 day block	30 Aug - 1 September	AMREP CR 2	OEH
MPH2047 Child Public Health	J Green	5 day block	to be confirmed	RCH	G
MPH2048 Primary Health Care in Developing Countries ■	C Morgan	5 day block	16-20 August	Burnet	IH
MPH2049 Field Methods for IH Planning and Evaluation ■	T Stewart	5 day block	6-10 September	Burnet	IH
MPH2051 Communicable Disease Control in Dev. Countries	M Creati	5x4 w/day hrs 1x7 w/end hrs	Wed 2-6pm Sat 9-5pm†	Burnet	IH
MPH2054 Nutritional Issues in Developing Countries	M Toole	3x2 w/day hrs 3x7 w/end hrs	Tue 2-4pm Sat 9-5pm†	Burnet + AMREP CR	IH
MPH2056 Injury Epidemiology & Prevention	B Gabbe / P Cameron	5 day block	5-9 July	AMREP CR 2	OEH
MPH2057 Aboriginal Health ▲	TBC	5 day block	23 - 29 September (no classes on weekend)	VACCHO	IH
MPH2058 Mng Com. Based HIV Programs in Dev. Countries ■▲	L Renkin	7 day block	6-14 July	Burnet	IH
MPH2060 Policy & Strategy for Disease Prevention & Health Promotion	B Oldenburg	OCL & 2 block days	6 Aug + 8 October	AMREP CR 3	IH
MPH2065 Law for Health Systems	E Kennedy	OCL & 2 block days	19 July + 20 September	DEPM SR	HSM
MPH2067 Principles of H/Care Quality Improvement	S Evans	OCL & 2 block days	20 July + 21 September	DEPM SR	HSM
MPH2070 Advanced Statistical Methods for Clinical Research	R Wolfe	OCL & 1 x 1+1 x 2 day block	12 Aug + 14-15 October	AMREP CR 2 AMREP CR 2	CE CE
MPH2072 Reform & Development of Health Services	D Roberts	OCL & 2 block days	21 July + 22 September	AMREP SR	HSM
MPH2077 Data Management & Computing	TBC	OCL & 3 day Block			CRM
MPH2083 Ethics, Good Research Practice & Practical Research	M Brooks	OCL & 2 day block	27-28 July	AMREP CR 2	CRM
MPH2084 Critical Appraisal of Occ health + Safety Information	M Sim	OCL & 3 day block	9-11 August	AMREP CR 2	OEH
MPH2086 Applying & Practicing the Principles of PS & QI	J Ibrahim	OCL & 2 block days	23 July + 17 September	AMREP CR 1	HSM
Other Units					
DPH6003 Advanced Research Methods	M Abramson	OCL & 2 x 1 day block	30 July + 15 October	AMREP CR	DPH
DPH6005 Public Health Practice	M Abramson	OCL			DPH
ECX9710 Pharmaceutical Economics	j Watts	OCL			MPH
ECX9720 Introduction to Epidemiology & Biostatistics	F Cicuttini	OCL			G
ECX9730 Economics Evaluation in Health Care	R Sweeney	OCL			MPH
EPM5002 Mathematical Background for Biostatistics	K Dear	OCL			BS
EPM5003 Principles of Statistical Inference	A Kirby	OCL			BS
EPM5004 Linear Models	A Forbes	OCL			BS
EPM5005 Data Management & Statistical Computing	C D'Este	OCL			BS
EPM5007 Design of Experiments & Clinical Trials	P Ryan	OCL			BS
EPM5009 Categorical Data & Generalised Linear Models	A Dobson	OCL			BS
EPM5011 Biostatistical Practical Project (double unit)**	A Forbes	OCL			BS
EPM5012 Bioinformatics	G Byrnes	OCL			BS
EPM5013 Bayesian Statistical Methods	L Gurrin	OCL			BS
EPM5014 Probability & Distribution Theory	R Wolfe	OCL			BS
EPM5015 Biostatistical Practical Project (single unit)	A Forbes	OCL			BS
EPM5016 Advanced Clinical Trials	V GebSKI	OCL			BS
EPM5022 Critical Appraisal Skills	J Black	Weekly	Thur 3-5pm	AMREP CR 3	RB
EPM5023 International Research Bioethics	D Zion	Weekly	Fri 11am - 1 pm	AMREP CR 3	RB
EPM5024 Research, Bioethics & Law	B Crammond	Weekly	Fri 1-3pm	AMREP CR 3	RB
HSC5002 Health Promotion: A determinants approach	H Keleher	OCL	check Monash Timetble	Caulfield Campus	MPH
HSC5012 Strategies for Health Promotion	H Keleher	OCL	check Monash Timetble	Caulfield Campus	MPH
HSC5022 Evaluation in Health Promotion	R Parker	OCL	check Monash Timetble	Caulfield Campus	MPH
HSC5032 Health Literacy	H Keleher	on-campus 4 day block	check Monash Timetble	Caulfield Campus	MPH
IDA5220 The Art and Business of International Development - TBC	C Thorburn	Weekly	Thur 2-5pm - check Monash Uni Timetable for updates	Clayton Campus	IH
Summer Semester					
MPH2082 Health Communications & Training ■▲	L Natoli	6 day block	20-27 October	Burnet	IH
ECX9741 Applied Health Economics & Health Policy▲\$	J Watts	OCL			MPH
EPM5025 Research Ethics Practicum	D Zion	5 Day block	15-19 Nov	AMREP CR 2	RB

** full year unit ■ Timely enrolment is encouraged as quotas apply to most international health units ▲ Scheduled outside standard semester
 † attached OR Contact Burnet Institute (9282 2167) 2 months prior for dates or check www.med.monash.edu.au/epidemiology/postgrad/ OCL = off-campus learning mode of study
 ▲\$ Contact Jenny Watts on jenny.watss@buseco.monash.edu.au before 10 Oct 2008 for summer semester dates

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
 DEPM SR = Seminar Room, MR317 Meeting Room 317, RM380, 3rd floor, Burnet Building, Alfred Hospital, Commercial Rd (near Punt Rd), Melbourne
 Melb Uni - Carlton = The University of Melbourne, School of Population Health Building, 207 Bouverie St., Carlton
 MMS = Monash Medical School Lecture Theatre & Tute Rooms, Monash University, Alfred Hospital, Commercial Rd (closest intersection is St Kilda Road) - see enclosed map
 RCH = Royal Children's Hospital, Centre for Community Health, Flemington Rd, Parkville VACCHO 5-7 Smith St, Fitzroy Menzies S703, Clayton Campus
 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 2010

Department of Epidemiology & Preventive Medicine

School of Public Health & Preventive Medicine

3rd Floor, Burnet Building, 89 Commercial Road (near Punt Rd cnr)

Melway map reference: 2L B9

Alfred Hospital, Melbourne

Postgraduate Office: 9903 0563

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

Map: <http://www.med.monash.edu.au/epidemiology/downloads/alfred-map-2006.pdf>

(Located in the MacFarlane Burnet Centre)

Victorian Consortium for Public Health (MPH only)

MPH Administrator, Department of Epidemiology & Preventive Medicine, Monash University,

Alfred Hospital, Melbourne VIC 3004.

Email: vcph@med.monash.edu.au Web: www.publichealth.vic.edu.au/

MPH consortium classes

University of Melbourne, Carlton Campus

School of Population Health

Building 207, Bouverie Street, Carlton

The campus is easily accessible by car with ample parking available.

Access by public transport is available.

Melway map reference: 2B D9

Alfred Medical Research Education Precinct (AMREP)

Ground Floor, next to Ian Potter Library

Alfred Hospital, Commercial Road, Melbourne

<http://www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf>

Melway map reference: 58 B5

Burnet Institute

Centre for International Health, Alfred Hospital,

87-89 Commercial Rd, Melbourne

Student Liaison Office: 9282 2167

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

<http://www.baysidehealth.org.au/Assets/Files/AlfredSiteMap.pdf>

Melway map reference: 2L D12

Royal Children's Hospital (RCH)

Centre for Community Health

Flemington Road, Parkville

The centre is easily accessible by public transport.

Melway map reference: 2A J5

VACCHO

5-7 Smith Street

Fitzroy

Access by public transport is available.

Melway map reference: 2C D12

Melway map references sourced from Melway Street Directory, Edition 28, 2002.

Web: www.ausway.com

Application Information

Semester Dates 2010

Semester 1:	1 March - 4 June	Semester 2:	19 July - 22 October
Vacation:	2 April - 9 April	Vacation:	27 September - 1 October

Entry Requirements

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

For additional international entry requirements refer to the International Postgraduate Course Guide or www.monash.edu.au/international/.

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

Application Procedures

Local Applicants

All our postgraduate courses are available to local students. The application form at the end of this publication is recommended for all local course applications except for the Doctor of Public Health (DPH). All DPH applicants are required to consult with the Course Coordinator prior to submitting an application. Refer to the individual DPH course description for further information.

Submit all local applications to:

Postgraduate Office
Department of Epidemiology & Preventive Medicine
Monash University
Alfred Hospital Melbourne VIC 3004

2010 Local applications closing dates:

20th November 2009 - First round
20th January 2010 - Second round

International Applicants

Our postgraduate full-time courses are available to international students. For full application details refer to the International Postgraduate Course Guide 2010 or www.monash.edu/study/international/

For international application forms and inquiries please contact:

International Recruitment Services
Monash University
Building 73
Wellington Road
Clayton Victoria 3800
Australia

Course Inquiries
Email: study@monash.edu
Website: <http://monash.edu.au/international>
Telephone: +(613) 9627 4852
Facsimile: +(613) 9903 4778

Advanced Standing/Credit

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 advanced standing forms are available from www.med.monash.edu.au/epidemiology/pgrad/ and must be accompanied with full documentation, including course outlines and content.

For further information on obtaining credit, international students studying on-campus should refer to: www.med.monash.edu.au/pgrad/policies/articulate.doc

For further information

Postgraduate Office
Department of Epidemiology and Preventive Medicine
Alfred Hospital, Melbourne Victoria 3004
Telephone: (+613) 9903 0563 Fax: (+613) 9903 0556
Email: pgradenq@med.monash.edu.au
Web: www.med.monash.edu.au/epidemiology/pgrad/

Application Information

Course Fees

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

Commonwealth Supported Places (CSP)

Under new government legislation, all Australian citizens, New Zealand citizens and holders of Australian permanent visas will receive a Student Learning Entitlement (SLE), giving them access to seven years' full-time (or equivalent part-time) study in a Commonwealth – Supported place. The Australian Government requires the majority of students in a Commonwealth-Supported Place to contribute to the cost of their education. This means that students pay a proportion of the cost of their course and the government funds the balance. Only the MPH and MIH programs have Commonwealth-Supported places. In previous years, this type of place was known as a HECS (Higher Education Contribution Scheme) place.

Fee-Paying Courses

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

Research Training Scheme (RTS)

Most Australian or permanent resident research students at Monash University are granted a government-funded Research Training Scheme (RTS) place. Under this scheme, research students receive two full-time equivalent years of funding for a research master course and four years of full-time equivalent funding for doctoral studies.

If an RTS place is not available, students will usually be given a non-commonwealth-funded place where the course fees are fully waived until an RTS place becomes available. Alternatively, some research courses offer non-commonwealth – funded places on a fee-paying basis.

Under the RTS, it is a statutory requirement that all higher degree by research students provide details of previous enrolment/s in research programs to determine eligibility for RTS funding.

Higher Education Loan Programs (HELP)

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

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

For more information, contact the Student Services Centre on each campus or visit the DEEWR website at:

<http://www.goingtouni.gov.au/>.

Monash Fees Unit

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

Phone: +61-3-9902 6011

Email: fees.unit@adm.monash.edu.au

Website: <http://monash.edu.au/fees/>

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

For University fee information contact the Monash Fees Office – Telephone: 9902 6011

email: fees.unit@adm.monash.edu.au

Course fees for 2010 (subject to university approval)

Domestic students

Fee paying courses between \$17,200 - \$18,500 per full-time year (8 units)

For details see: <http://www.monash.edu.au/study/coursefinder/> FEE-HELP available.

Fee for Master of Public Health CSP or Fee paying

Master of International Health CSP or Fee paying

Doctor of Public Health RTS

Single Unit \$2,150.00

International students

Fee paying courses A\$30,800 per full-time year (8 units)

Master of International Health and A\$17,900 per full-time year (8 units)

Master of International Research Bioethics fees A\$17,900 per full-time year (8 units)

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

Graduate Programs in Epidemiology and Preventive Medicine ~ 2010

Postgraduate Office
Department of Epidemiology & Preventive Medicine
School of Public Health and Preventive Medicine
Monash University
Alfred Hospital, Melbourne Vic 3004
Email: pgradenq@med.monash.edu.au
Website: www.med.monash.edu.au/epidemiology/pgrad/

Closing dates: **Round 1: 20 November, 2009**
 Round 2: 20 January, 2010 subject to course availability
 Mid-year: 20 June, 2010 subject to course availability

Course code	ID Number <i>office use only</i>
Course name	

Residency status <i>please tick appropriate option and provide evidence of citizenship</i>		
Australian citizen <input type="checkbox"/>	Permanent resident of Australia <input type="checkbox"/>	New Zealand citizen <input type="checkbox"/>
<i>International students must apply through Monash International - see the Postgraduate Course Guide for International Students or visit their website:</i>		
www.monash.edu.au/international/ email: study@monash.edu.au		

Personal details	
Title	Surname
Given Names	
Sex M <input type="checkbox"/> F <input type="checkbox"/>	Date of birth / /
Have you previously applied and/or studied at Monash University? Yes <input type="checkbox"/> No <input type="checkbox"/>	
If yes, please state Monash ID number <i>if known</i>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Have you changed your name since you last applied/studied at Monash University? Yes <input type="checkbox"/> No <input type="checkbox"/>	
If yes , please attach relevant documentation.	

Postal address for correspondence	
Number & Street	
Suburb	State
Country	Postcode
Phone (AH)	Phone (BH)
Phone (mobile)	Facsimile
Email address	

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Tertiary education record <i>a certified copy of academic transcripts/results must be attached</i>			
Degree		Field of Study	
Institution			
State		Country	
Year completed	/ /	Years enrolled	Course completed Yes <input type="checkbox"/> No <input type="checkbox"/>
Are you seeking Advanced Standing for prior study? Yes <input type="checkbox"/> No <input type="checkbox"/>			
If yes, please complete the Advanced Standing Application form - see website: www.med.monash.edu.au/epidemiology/pgrad/			

Employment history <i>please provide details of any relevant employment experience, supporting documents i.e. CV</i>			
Occupation		Occupation	
Start date	/ /	End date	/ /
Employer	Employer		
Position & duties		Position & duties	

Reasons for undertaking the course <i>in approximately 250 words briefly state why you want to take this course, list your areas of interest. Please attach a separate sheet if insufficient space</i>

MPH applicants only <i>as of 2006, both Commonwealth Supported Places (CSP/HECS) and Fee paying places are available. Please nominate your preference.</i>	
CSP place <input type="checkbox"/>	Fee paying place <input type="checkbox"/>

Application details			
Course title & code <i>MPH applicants please list stream of interest:</i>		Semester commencing studies in 2010	
or Single unit enrolment		Semester 1	Semester 2 <i>mid-year entry</i>
		Attendance type	FT <input type="checkbox"/> PT <input type="checkbox"/>
Attendance mode	On campus (internal) <input type="checkbox"/>	Off campus learning (OCL) <input type="checkbox"/>	Single unit <input type="checkbox"/>

Notes

Notes