2018 Graduate courses
Public Health and Preventive Medicine
Welcome

Creating and sharing knowledge for improved health and prevention of disease through education and research.

Study with us at Monash to extend your knowledge and skills, and propel your career in public health and medicine. We offer a wide range of graduate courses that give you access to flexible learning options and research opportunities. A Monash degree prepares you to serve the community in an increasingly competitive job market, and as a result, our graduates are highly sought-after by employers globally.

We are one of the largest schools within the Monash University Faculty of Medicine, Nursing and Health Sciences. As a centre of excellence dedicated to learning and research, we influence and contribute to public health nationally and globally. We work, collaborate and conduct our research with the major Monash-affiliated hospitals, research institutes and public health units, including one of Australia’s leading training hospitals, The Alfred, in Melbourne.

We are located in the Alfred Medical Research and Education Precinct (AMREP), a hive of research innovation and activity that generates partnerships between leading medical minds and organisations. Our students reap the rewards through opportunities to learn from and network with world-renowned researchers and potential future employers.

Monash is a member of the Group of Eight (Go8), a coalition of research-intensive Australian universities. Go8 members maintain consistently high international rankings, receive 73% of Australian Competitive Grant (Category 1) funding and enjoy student success and retention rates above the Australian average.

Our international links include our overseas campuses and our inclusion in the M8 Alliance. Monash is ranked in the top 100 universities worldwide, due to our high-calibre teaching staff and access to pioneering research and cutting-edge facilities.

We foster leadership in our staff and students. Our researchers and teachers are public health leaders who pass on real-world knowledge to our students in a collegial atmosphere.

Our core skills relate to epidemiology (the study of the distribution, risk factors and causes of disease) and its application to problems in clinical medicine and public health. This makes us a key resource for translational research in our faculty. We have particular expertise in large epidemiological studies, multi-centre clinical trials, clinical registries, modelling, data management, evidence synthesis and health social science.

Monash has a reputation not just for embracing new ideas, but for providing a culture that shapes and shares them. Our School delivers this through engagement with issues that are challenging the world and influencing human health, and we are part of public health projects globally.

Committing to one of our graduate courses in public health will reward you with an intellectually stimulating, fascinating and challenging journey.

With strong evidence of success for more than 30 years, our department and collaborators are at the forefront of graduate education in public health, clinical research methods, health services management, and occupational and environmental health.

In 1981 we accepted our first small intake of MPH students; in the ensuing years we have grown and excelled, now boasting a vibrant and interactive program of 13 graduate courses that in 2017 enrolled more than 700 local and international students.

I welcome you to the Monash community and invite you to participate in our graduate coursework programs, through which you can expand your skills and knowledge for a strengthened career trajectory, all while contributing to the better health of local, national and global communities.

Professor John McNeil
Head, Monash Public Health and Preventive Medicine

Course enquiries
E: pgradenq@monash.edu
med.monash.edu/epidemiology/pgrad
+61 3 9903 0563
Public Health

Master of Public Health (multi-modal) 4 – 11
Master of Public Health (online) 12

Biostatistics

Master of Biostatistics 13
Graduate Diploma of Biostatistics 13

Clinical Research

Master of Clinical Research 15 / 16

Health Services Management

Master of Health Services Management (multi-modal) 17 / 18
Graduate Certificate in Health Services Management 17 / 18
Graduate Diploma in Health Services Management 17 / 18
Master of Health Administration (online) 20 / 21

Occupational and Environmental Health

Master of Occupational and Environmental Health 22 / 23
Graduate Diploma of Occupational and Environmental Health 22 / 23

Graduate teaching staff 25 – 29

Units 2018 30 – 43

Timetable 2018 44 / 45

Application Information

Semester Dates 2018 46
Entry requirements 46
Application procedures 46
Credit / advanced standing 46
Course fees 2018 47
Teaching locations 2018 47
Further information 47

Using this guide
This guide contains general information on the graduate courses offered for 2018 in the Department of Epidemiology and Preventive Medicine (DEPM). All information is correct at the time of printing, March, 2018. All changes to the DEPM timetable will be published on our webpage: med.monash.edu/epidemiology/pgrad
## Graduate courses 2018

<table>
<thead>
<tr>
<th>Course code</th>
<th>CRICOS code</th>
<th># Units req.</th>
<th>Credit points</th>
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<td>Master of Clinical Research*</td>
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*Change of course title is subject to approval
Master of Public Health – multi-modal

The Monash Master of Public Health is an internationally recognised passport for careers in government, industry, aid organisations and throughout the health sector; now offering three entry pathways to accommodate for a range of experience and academic levels.

- NEW MPH course structure with two additional entry levels
- NEW Graduate certificate and Graduate diploma exit options
- An internationally recognised and respected degree
- Units taught in flexible delivery mode
- New unit: MPH5289 Professional practice development
- Pathway opportunities into a PhD
- Programs including research and writing skills, introduction to Moodle to facilitate return to study

This top choice for public health training is offered by the School of Public Health and Preventive Medicine, providing the full range of quantitative, analytical, practical and communication skills necessary to work and provide leadership in the broad domain of public health, locally and globally.

Taught by Victoria’s leading public health professionals and with strong links to the Alfred Hospital in Melbourne, the Master of Public Health is highly regarded in both industry and academia, with a reputation for excellence in teaching and outstanding graduates.

To guide you in developing your elective study program, with depth for career development and interests, electives are broadly organised into the key areas of expertise of:

- Epidemiology and biostatistics
- Clinical research methods
- Health economics
- Disease/injury prevention and control and health promotion
- Health policy, planning and management
- Global health and human rights
- Occupational and environmental health

The MPH course offers you the opportunity to integrate and extend the knowledge and skills gained in your MPH through a capstone experience, as a professional practice development unit. There’s also the opportunity for you to undertake a research project or case study (consultation with the course research project coordinator is required prior to enrolment in research units).

The course structure and flexibility helps you extend, integrate and apply your core knowledge and skills with depth in key areas of interest according to your background and career development interests, something that employers have identified as important, and to gain knowledge and skills in new areas across the broad domain of public health to equip you for future challenges.

Public health skills and knowledge are fundamental to addressing many of the 21st century’s complex health problems and the global burden of disease – on populations, individuals, communities and the economy.

By undertaking a Monash University Master of Public Health, you’ll be studying at a Group of Eight University and one that is ranked in the top 100 universities worldwide. This means high-calibre teaching staff who are experts in their fields, access to pioneering research and cutting-edge facilities.

Teaching is structured as a combination of face-to-face (including block days) teaching and online educational delivery, to suit working professionals or with other responsibilities.
Entry requirements

Entry level 1: 96 credit points to complete
An Australian undergraduate degree (or equivalent) in a non-related discipline with at least a weighted average mark (WAM) of 60% or an equivalent GPA.

Entry level 2: 72 credit points to complete
An Australian undergraduate degree (or equivalent) in a related health or public health discipline with a research honours, or a medical degree, or a Monash University Bachelor of Public Health Science degree or a Bachelor of Public Health (course code M2012) degree or a Monash University Bachelor of Biomedical Science degree with a public health major, with at least a WAM of 60% or equivalent GPA

OR
An Australian undergraduate degree (or equivalent) in a relevant discipline with at least a WAM of 60% or an equivalent GPA and a minimum of two years of relevant work experience.

Entry level 3: 48 credit point to complete
An Australian Master of Philosophy or PhD or doctoral degree or AQF level 9 qualifications (or equivalent) in a relevant discipline and a minimum of two years of relevant work experience.

OR
An Australian undergraduate degree in a related health or public health discipline and a minimum of two years of relevant work experience

AND
Part 1 of a specialist medical training program, or current fellowship of a specialist medical college recognised by the Medical Board of Australia and current registration with AHPRA or a satisfactory substitute that the faculty considers to be equivalent.

Research pathway

The public health research project requires you to demonstrate your ability to integrate and apply public health theory, principles and practice, and research methods to a specific public health problem or issue. Consultation with the course research project coordinator is required prior to enrolment in the research project.

12-point research project*
Prerequisites: a distinction (70%) – high distinction (80%) in units MPH5040 and MPH5041, and it is recommended you achieve a distinction in MPH5213.
You complete:
- MPH5231 Research design and project proposal
- MPH5232 Research conduct, analysis, write-up and submission

24-point research project*
Prerequisites: you must achieve a distinction in the following four units: MPH5040, MPH5041, MPH5213 or MPH5249 and MPH5200 (for students undertaking quantitative analysis), or an approved PG qualitative research unit (for students undertaking qualitative analysis).
You complete:
- MAP5000 Research in advanced health professional practice (12 points)
- MAP5010 Advanced health practice research project (12 points)

* Note – project supervision: It’s highly recommended that a research project be conducted with a principal supervisor located within SPHPM. For this reason, only in unusual circumstances would we consider a student undertake the research project with a supervisor external to SPHPM. Circumstances may be where the research project would be undertaken in a workplace in which the student is currently employed and in which they have an experienced supervisor/researcher who is willing and available to supervise them on the research project.
### Master of Public Health – course code: M6024

- Structure 1 Coursework pathway
- Structure 2 Coursework plus MPH5273 case study pathway
- Structure 3 Research pathway

#### PART-time structure – 96 credit points

<table>
<thead>
<tr>
<th>Structure 1</th>
<th>Structure 2</th>
<th>Structure 3</th>
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<tbody>
<tr>
<td><strong>Part B (24 points) Foundations of public health studies</strong></td>
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<tr>
<td><strong>YEAR 1</strong></td>
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<td>Semester 1</td>
<td>MPH5040 Introductory epidemiology</td>
<td>MPH5041 Introductory biostatistics</td>
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<tr>
<td>Semester 2</td>
<td>MPH5213 Research methods</td>
<td>MPH5288 Introduction and challenges in public health</td>
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</tbody>
</table>

**Part A (24 points) Expanding public health knowledge including core units one from MPH5203, MPH5218, MPH5207, MPH5256, MAP5002, MAP5022 PLUS one unit from MPH5269, MPH5266, MPH5272, MAP4200.**

| **YEAR 2** | | |
| Semester 1 | MPH5002 Foundations of health promotion and program planning or MPH5207 Chronic diseases epidemiology and prevention or MPH5256 Injury epidemiology and prevention or Elective MPH5266 Clinical leadership and management or MPH5269 Foundations of health policy or MAP4200 Improving Indigenous equity in professional practice or Elective | |
| Semester 2 | MPH5203 Environmental influences on health or MPH5218 Infectious diseases: epidemiology and prevention or MPH5222 Evaluating public health programs or MPH5227 Reform and development of health care services or Elective | |

**Part C (48 points) Advanced application expertise**

| **YEAR 3** | | |
| Semester 1 | Elective x 2 | Elective x 2 | MPH5200 Regression methods for epidemiology* or Elective |
| Semester 2 | MPH5289 Professional practice development | MPH5289 Professional practice development | MPH5231 Research design and project proposal** or MPH5232 Research conduct, analysis, write-up and submission** or MAP5000 Research in advanced health professional practice* or MAP5010 Advanced health practice research project** or Elective |

| **YEAR 4** | | |
| Semester 1 | Elective x 2 | MPH5273 Case study | MPH5231 Research design and project proposal** or MPH5232 Research conduct, analysis, write-up and submission** or MAP5000 Research in advanced health professional practice* or MAP5010 Advanced health practice research project** or Elective |
| Semester 2 | Elective x 2 | MPH5273 Case study | Elective |

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6 | Public Health and Preventive Medicine
## PART-time structure – 72 credit points

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<td>MPH5041 Introductory biostatistics</td>
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<td>MPH5213 Research methods</td>
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<td>MPH5288 Introduction and challenges in public health</td>
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<tr>
<td><strong>Part C (48 points) Advanced application expertise</strong></td>
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<td>Elective x 2</td>
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<td>MPH5289 Professional practice development</td>
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<td>Semester 2</td>
<td>Elective x 2</td>
<td>MPH5273 Case study</td>
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<tr>
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<td>MPH5273 Case study</td>
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## PART-time structure – 48 credit points

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* MPH5200 required for students undertaking quantitative analysis or an approved graduate qualitative research unit.

** Prerequisites apply, consultation with course project coordinator is required — see research pathway below for more details.

Further information is available at: monash.edu/pubs/handbooks/courses/M6024.html
Course structure – key areas of expertise

These electives are grouped in key areas of expertise and are a guide only.

You can choose your electives from MPH-approved units. To help you develop your elective study program, with depth for your career development and interests, elective units are grouped broadly under the following key areas of expertise.

<table>
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<tr>
<th>Unit</th>
<th>Title</th>
<th>Epidemiology and biostatistics</th>
<th>Clinical research</th>
<th>Health economics</th>
<th>Disease, injury prevention and control</th>
<th>Health promotion and health protection</th>
<th>Health policy, planning and management</th>
<th>Global health and human rights</th>
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<td>MPH5236</td>
<td>Clinical trials</td>
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<td>MPH5239/</td>
<td>Systematic reviews and meta analysis</td>
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<td>MPH6239</td>
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<tr>
<td>MPH5244</td>
<td>Ergonomic and physical hazards</td>
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<tr>
<td>MPH5256</td>
<td>Injury epidemiology and prevention (not offered in 2017)</td>
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<tr>
<td>MPH5265</td>
<td>Law for health systems</td>
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<tr>
<td>MPH5266</td>
<td>Clinical leadership and management</td>
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<tr>
<td>MPH5267</td>
<td>Principles of healthcare quality improvement</td>
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<tr>
<td>MPH5270/</td>
<td>Advanced statistical methods for clinical research</td>
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<td>MPH5272</td>
<td>Reform and development of health services</td>
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<tr>
<td>MPH5276</td>
<td>Safety management systems</td>
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<tr>
<td>MPH5277</td>
<td>Data management and computing</td>
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<td>MPH5283</td>
<td>Ethics, good research practice and practical research skills</td>
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<tr>
<td>MPH5286</td>
<td>Applying and practising the principles of PS and QI</td>
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<td>HEC5973</td>
<td>Economics evaluation in health care</td>
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<tr>
<td>EPM5023</td>
<td>Foundations of international health</td>
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</table>

Approved graduate unit/s chosen from those offered by SPHPM (except units MPH5020; MPH5301-MPH5315; EPM5001-EPM5015)
Epidemiology and biostatistics

Epidemiology and biostatistics and research methodologies are fundamental disciplines in public health. These units will further develop your knowledge and skills in epidemiology and its application across several key public health domains. These units also offer the opportunity to develop more advanced-practice skills in epidemiology and biostatistics and statistical analysis, and in database management and computing. For those interested in global health and practising public health internationally, field methods for international health planning and evaluation could be considered as a key unit in your program.

For further information about specific units in this key area of expertise, please contact the unit coordinator.

Clinical research

These units assist you with training in quantitative research methods, critical appraisal of the scientific literature, the translation of research into clinical practices methods used to undertake sound clinical research, and ethics and good research practice. There are also units in disease/injury-based epidemiology for integration of knowledge. Those wanting depth in this key area may already be working in clinical research, in clinical trials, in biomedical research, or wanting to gain or extend their skills in relevant research methods and analysis, or greater depth in epidemiology of major causes of morbidity and mortality in public health.

For further information about this key area of expertise, please contact Professor Danny Liew danny.liew@monash.edu

Health economics

These units assist you as a public health professional to expand your knowledge and skills in health economics and methods used to undertake health economic evaluations. Those wanting depth in this key area may be working in public health-related fields in which health economics is integral, or want to gain or extend their knowledge and skills to apply economic evaluation in their work or in new career roles.

For further information about this key area of expertise, please contact Associate Professor Duncan Mortimer, duncan.mortimer@monash.edu

Disease/injury prevention and control and health promotion

These units assist you as a public health or health care professional to expand your knowledge and skills in health promotion, program planning and evaluation, and the important field of non-communicable disease prevention. Those wanting depth in this key area may be working in public health-related fields in which health promotion or disease prevention strategies are being researched, developed, implemented and evaluated, or may want to gain or extend their knowledge and skills to apply in their work or in new career roles.

For further information about health promotion, please contact the unit coordinator for more specific information on other units.

Health policy, planning and management

These units assist you as a public health or health care professional to expand your knowledge and skills in management and the management of health services. Those wanting depth in this key area may be working in public health/health services management or leadership roles, or may require skills in leadership, human resource management and/or financial management to further develop their career. An MPH with depth in health services management is directed at those seeking leadership and management roles within public health and therefore includes core public health units as well as management units.

For more information about specific units in this key area of expertise, please contact the Unit Coordinator.

Occupational and environmental health

These units assist you as a public health professional to expand your knowledge and skills in occupational and environmental health. Environmental influences on health are a key determinant of health, and the importance of the relationship between occupational health, health at work and public health is increasingly recognised. An MPH with depth in occupational and environmental health is directed at those seeking occupational and environmental health roles within public health and therefore includes core public health units as well as occupational and environmental health units.

For further information about this key area of expertise, please contact Professor Malcolm Sim, malcolm.sim@monash.edu, or the unit coordinator.
Professional accreditation
This course fulfils the core discipline requirements of a Master of Public Health for the Australasian Faculty of Public Health Medicine, Royal Australasian College of Physicians.

Career fields
A foundation for career development for senior roles in public health and the health system.
Careers: public health or clinical research, government or non-government organisations, public sector management, international health, policy, health promotion, and health care.

Progression to further studies
You can choose to complete a research project or research-related units and achieve a distinction (70-79%) to high distinction (80-100%) that may provide a pathway to a higher degree by research.

Alternate exit(s)
You may exit this course early and apply to graduate with one of the following awards, provided you have satisfied the requirements for that award during your enrolment in the master’s course:
• Graduate Certificate in Public Health after successful completion of units: MPH5040, MPH5041, MPH5213 and MPH5288.
• Graduate Diploma in Public Health after successful completion of units: MPH5040, MPH5041, MPH5213, MPH5288 and 24 credit points from units: MPH5002, MPH5022, MPH5203, MPH5207, MPH5218, MPH5286, MAP4200, MPH5266, MPH5269, MPH5272 and/or MPH5289 or MPH5273 or electives from the Key Areas list on pages 8 and 9.

Timetable and Venue
med.monash.edu/epidemiology/pgrad

Census dates and teaching periods
monash.edu/enrolments/dates/census

Further information
Professor Dianna Magliano
Course coordinator
E: dianna.magliano@monash.edu

Dr Sandy Braaf
Project coordinator
E: sandy.braaf@monash.edu

Website
monash.edu/pubs/2018handbooks/courses/M6024

NOTE: Students must complete compulsory unit block attendance.
International students – a separate recommended full-time on-campus enrolment is available for international students. Please review any variation to recommended enrolment with the course coordinator. Check unit details and prerequisites prior to enrolment.
Master of Public Health – online

The course provides the full range of quantitative, analytical and communication skills necessary to work in the broad domain of public health.

You’ll also learn the quantitative methods of the population-based health sciences and their problem-solving application for primary care provision within Australia and developing countries.

- 100% online
- Accelerated delivery
- Six intakes throughout the year

Entry requirements
To be eligible for this course, you’ll need to have either:

- An Australian undergraduate degree (or equivalent) in a relevant discipline and minimum of two years of relevant experience

OR

- One year of hospital experience in a clinical role as a medical practitioner

OR

- One year experience in the health industry and two years’ experience in full-time work
- Relevant experience in the health industry, government sector, policy, a provider (e.g. hospital or clinic), non-government organisation (NGO), academic institution, consulting or pharmaceutical company.

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

Career fields
Include:

- Leadership roles in public or private hospitals, health care institutions or companies.
- Roles in local, state or federal health departments in health policy, planning and management, research roles or at universities or health institutions.
- Positions in health advocacy or policy planning within non-government and international aid organisations.
- Jobs in project coordination, communities and advocacy, program management, health education, health planning, policy development, epidemiology and biostatistics, health economics, disease prevention and health promotion, global health and human rights, occupational and environmental health.

Course structure
These units are run in a carousel model and only offered once every 24 months in a teaching period consisting of six weeks. These units are not interchangeable with our multi-modal MPH course code: M6024. Units are six credit points, unless otherwise stated. Students complete:

<table>
<thead>
<tr>
<th>Teaching Period</th>
<th>Unit</th>
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<tbody>
<tr>
<td>2018</td>
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<tr>
<td>TP1</td>
<td>MPH 5308 Developing health systems</td>
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<tr>
<td>TP2</td>
<td>MPH5309 Occupational health and safety</td>
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<tr>
<td>TP3</td>
<td>MPH5314 Epidemiology of chronic diseases</td>
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<tr>
<td>TP4</td>
<td>MPH5301 Health systems and policy</td>
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<tr>
<td>TP5</td>
<td>MPH5302 Biostatistics: concepts and applications</td>
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<td>TP6</td>
<td>MPH5303 Epidemiology of infectious diseases</td>
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<td>2019</td>
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<tr>
<td>TP1</td>
<td>MPH5304 Leading and managing in public health and health care</td>
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<td>TP2</td>
<td>MPH5305 Epidemiology: concepts and applications</td>
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<td>TP3</td>
<td>MPH5310 Introduction to environmental health</td>
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<td>TP4</td>
<td>MPH5306 Evaluation in public health</td>
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<tr>
<td>TP5</td>
<td>MPH5307 Introduction to health law principles</td>
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<tr>
<td>TP6</td>
<td>MPH5313 Challenges in public health</td>
</tr>
</tbody>
</table>

Further information
admissions.online@monash.edu
monash.edu/study/courses/find-a-course/2018/public-health-m6021
monash.edu/pubs/2018handbooks/courses/M6021

Census dates and teaching periods
monash.edu/enrolments/dates/census
Master of Biostatistics

The master’s degree provides you with a sound foundation in the theory and application of biostatistics relevant to professional practice.

You’ll acquire skills and experience in complex statistical analyses, identifying and implementing appropriate statistical methodology, communicating biostatistical results, and understanding biostatistical results and literature. This program develops the technical skills for you to start a professional career as a biostatistician.

Units in this degree are offered in conjunction with partner universities in the Biostatistics Collaboration of Australia (BCA), a consortium of leading universities in Australia established to jointly develop and deliver a distance-based program in biostatistics.

Graduate Diploma of Biostatistics

The graduate diploma course provides you with a broad range of theory and techniques designed for health professionals seeking extensive upskilling in biostatistical methods.

This program assists you to understand the mathematical background, theory and application of the principles of epidemiology and biostatistics in health and medical research. It also helps you develop the analytical skills to become statistically self-sufficient.

Units in this degree are offered in conjunction with partner universities in the Biostatistics Collaboration of Australia (BCA), a consortium of leading universities in Australia established to jointly develop and deliver a distance-based program in biostatistics.

Entry requirements

You must have

• An Australian undergraduate honours degree (or equivalent) in mathematics or statistics

OR

• A Graduate Diploma of Biostatistics from Monash University or another university in the Biostatistics Collaboration of Australia (BCA)

OR

• An Australian undergraduate bachelor’s degree (or equivalent) in science, psychology, medicine, pharmacy, nursing, health sciences or a quantitative sector (e.g. engineering)

PLUS

a) a minimum of one year of full-time-equivalent experience in clinical/health research or in a quantitative sector (e.g. engineering) sand

b) completion of MPH5041 Introductory biostatistics or an equivalent unit or equivalent knowledge as deemed by the faculty. Students without this background are encouraged to enrol in the Graduate Diploma of Biostatistics.

NOTE: Students must complete compulsory unit block attendance.

Timetable and venue
med.monash.edu/epidemiology/pgrad

Census dates and teaching periods
monash.edu/enrolments/dates/census
### Course structure

Units are six credit points unless otherwise stated.

- **Graduate certificate**
- **Graduate diploma**
- **Master’s**

#### Part-time structure – 72 credit points

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Units</th>
<th>M4014 Graduate certificate (exit option only)</th>
<th>M5017 Graduate diploma</th>
<th>M6025 Master’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1</td>
<td>Semester 1</td>
<td>MPH5040 Introductory epidemiology</td>
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<td></td>
<td></td>
<td>EPM5002 Mathematical background for biostatistics</td>
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<td></td>
<td>Semester 2</td>
<td>EPM5005 Data management and statistical computing</td>
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<td>EPM5014 Probability and distribution theory</td>
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<tr>
<td>YEAR 2</td>
<td>Semester 1</td>
<td>EPM5003 Principles of statistical inference</td>
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<td></td>
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<td>EPM5004 Linear models</td>
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<td></td>
<td>Semester 2</td>
<td>EPM5007 Design of experiments and clinical trials</td>
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<td>EPM5009 Categorical data and generalised linear models</td>
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<td>YEAR 3</td>
<td>Semester 1</td>
<td>EPM5010 Survival analysis</td>
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<td>One of either EPM5011 or EPM5015</td>
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<td>EPM5011 Biostatistical practical project (12 pts)</td>
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<td>EPM5015 Biostatistical practical project (6 pts)</td>
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<td>Semester 2</td>
<td>EPM5011 or Elective</td>
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<td>Elective</td>
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<td></td>
<td>Elective units from the list below</td>
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<tr>
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<td>EPM5001 Health indicators and health surveys</td>
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<td>EPM5006 Clinical biostatistics</td>
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<td>EPM5008 Longitudinal and correlated data analysis</td>
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<td>EPM5012 Bioinformatics</td>
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<td>EPM5013 Bayesian statistical methods</td>
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Further information available at: monash.edu/pubs/handbooks

### Professional accreditation

Those graduating with the master’s degree obtain automatic accreditation status as graduate statistician (GStat) upon application to the Statistical Society of Australia.

### Career fields

Include pharmaceutical industry, public health, clinical research, biostatistician (only upon completion of the master’s program).

### Progress to further study

If you complete the Graduate Diploma of Biostatistics, you’re eligible to progress to M6025 Master of Biostatistics.

If you complete the master’s course you may qualify for admission into a higher degree by research program.

### Alternate exit(s)

You can exit this course early and apply to graduate with one of the following awards, provided you have satisfied the requirements for that award during your enrolment in this master’s course:

- Graduate Certificate of Biostatistics after successful completion of units: MPH5040 plus 18 credit points (three units).
- Graduate Diploma of Biostatistics after successful completion of units: MPH5040, EPM5002, EPM5003, EPM5004, EPM5005, EPM5007, EPM5009 and EPM5014.

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**Further information**

**Professor Andrew Forbes**

Course coordinator  
E: andrew.forbes@monash.edu  
monash.edu/pubs/handbooks/courses/

**BCA**  
www.bca.edu.au
Master of Clinical Research*

The Master of Clinical Research* is the only one of its kind in Victoria and facilitates the development of a range of analytical and communication skills necessary to work in the broad domain of clinical research and practice.

- Units taught by some of Australia’s leading clinical academics
- Only course in Victoria

The program enables you to develop a detailed understanding of biostatistics, epidemiology, data management, clinical trials, clinical measurement, ethical practice, systematic reviews and meta-analysis, and critical appraisal of the scientific literature for application in research and clinical practice.

To ensure depth of understanding, as well as providing a valuable opportunity to innovate within your particular field, you’ll have the option to develop your own research protocol and undertake a clinical epidemiological project.

The course structure and flexibility helps you extend, integrate and apply your core knowledge and skills with depth across the broad domain of clinical practice and research, necessary in a highly competitive industry.

Taught by some of Australia’s leading clinical academics, the curriculum is designed for those seeking to balance the demands of a busy workflow with the need to engage in further professional development. Structured around a mixture of online educational delivery and face-to-face block days, the course provides a level of detailed engagement that is also flexible. Block days are delivered at The Alfred Hospital, a major teaching hospital in inner-city Melbourne.

Entry requirements

Entry level 1: 72 credit points
An Australian undergraduate degree (or equivalent) in a relevant discipline with at least a weighted average mark (WAM) of 60% or an equivalent GPA as determined by the faculty, and a minimum of two years’ relevant work experience

OR
An Australian undergraduate degree (or equivalent) in a relevant discipline with research honours, or a medical degree or a Monash University Bachelor of Public Health Sciences degree, with at least a WAM of 60% or an equivalent GPA as determined by the faculty.

Entry level 2: 48 credit points
An Australian undergraduate Master of Philosophy or PhD or doctoral degree or AQF level 9 qualification (or equivalent) in a relevant discipline, and a minimum of two years’ relevant work experience

OR
An Australian undergraduate degree in a relevant discipline and a minimum of two years’ relevant work experience AND Part 1 of a specialist medical training program or current fellowship of a specialist medical college recognised by the Medical Board of Australia and current registration with AHPRA, or a satisfactory substitute that the faculty considers to be equivalent.

Timetable and venue
med.monash.edu/epidemiology/pgrad

Census dates and teaching periods
monash.edu/enrolments/dates/census

* Change of course title is subject to approval
NOTE: Students must complete compulsory unit block attendance.

International students – a separate recommended full-time on-campus enrolment is available for international students. Please review any variation to recommended enrolment with the course coordinator. Check unit details and prerequisites prior to enrolment.

COURSE CODE: M6028
CRICOS CODE: 072000D
### Course structure

Units are six credit points unless otherwise stated.

- Graduate certificate
- Graduate diploma
- Master’s

### Part-time structure

**Entry Level 1 / Part A and B = 72 credit points**

**Entry Level 2 / Part A = 48 credit points**

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<thead>
<tr>
<th>PART A</th>
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<tbody>
<tr>
<td>YEAR 1</td>
<td>Semester 1</td>
<td>MPH5040 Introductory epidemiology</td>
<td>MPH5041 Introductory biostatistics</td>
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<td></td>
<td>Semester 2</td>
<td>MPH5213 Research methods</td>
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<td>MPH5283 Ethics, good research practice and practical research skills</td>
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<tr>
<td>YEAR 2</td>
<td>Semester 1</td>
<td>MPH5237 Clinical measurement</td>
<td>MPH5202 Clinical epidemiology</td>
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<td>Semester 2</td>
<td>MPH5236 Clinical trials</td>
<td>MPH5239 Systematic reviews and meta-analysis</td>
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<thead>
<tr>
<th>PART B</th>
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<tbody>
<tr>
<td>YEAR 3</td>
<td>Semester 1</td>
<td>MPH5231 Research design and project proposal</td>
<td>Elective</td>
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<tr>
<td></td>
<td>Semester 2</td>
<td>MPH5232 Research conduct analysis, write-up and submission</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**Elective units – 12 credit points (two units) from the list below**

- MPH5200 Regression methods for epidemiology
- MPH5207 Chronic diseases: epidemiology and prevention
- MPH5218 Infectious diseases: epidemiology and prevention
- MPH5256 Injury epidemiology and prevention
- MPH5270 Advanced statistical methods for clinical research
- MPH5277 Practical data management
- MAP4200 Improving indigenous equity in professional practice

Further information available at: monash.edu/pubs/handbooks

### Career fields

Include: medicine, pharmacy, nursing, public health, allied health professions, physician, surgery, physiotherapy, general practice, infection control, maternal and child health, nutrition.

### Progression to further studies

Students must achieve a minimum mark of 70 per cent in units: MPH5040 and MPH5041 to progress into the project units: MPH5231 and MPH5232. Students who do not achieve the required minimum marks can exit with a Graduate Diploma of Clinical Research provided they have satisfied the requirements for the award.

Students admitted at:

Entry level 1 complete a research project (12 project) and achieve a distinction (70-79%) to high distinction (80-100%) that may provide a pathway to a higher degree by research.

Entry level 2 will normally already have an honours degree or higher qualification that provide a pathway to a higher degree by research. However, those in this group who wish to complete a research project should discuss the options with the course coordinator.

### Alternate exit(s)

You can exit this course early and apply to graduate with one of the following awards, provided you have satisfied the requirements for that award during your enrolment in the master’s course:

- Graduate Certificate of Clinical Research (course code: M4016) after successful completion of units: MPH5040, MPH5041, MPH5213 and MPH5283.

### Further information

**Professor Danny Liew**
Course coordinator
E: danny.liew@monash.edu
monash.edu/pubs/2018handbooks/courses/M6028.html
Master of Health Services Management

This course provides professionals currently in, or seeking to be in, middle and senior health care management positions with the credentials needed for advancement in the complex and challenging health care industry.

The MHSM is delivered via a flexible multi-modal study mode, allowing busy clinicians to manage their study around their work and other commitments, while exposing students to the valuable expertise of course Faculty and their colleagues during unit block days. The mix of core and elective units allows students to tailor their study program to their specific future professional needs.

The course structure builds on core management competencies ensuring future health care leaders have the right skills set commensurate with the responsibility of overseeing health care organisations. The course will cultivate your leadership skills to meet current and future challenges, strength your decision making ability, and equip you with the necessary tools to assess and implement innovative solutions to create positive organisational culture.

The MHSM is relevant to today’s business environment and challenges, and offers the opportunity to capitalise on previous work experience in the health care setting.

Our Faculty are highly qualified academics and industry experts with exceptional senior and executive experience in the health care industry.

The course specialises in the needs of medical and general hospital administrators, clinicians, quality managers, team leaders, senior nursing administrators, unit managers, patient care services and a range of senior managers within the health care system.

Graduate Diploma in Health Services Management

The Graduate Diploma in HSM provides a comprehensive overview of the core competencies required to be an effective health services leader, encompassing eight units from within the MHSM program. It is well suited to clinicians and health services managers with a management role who may not wish to undertake the full masters’ degree. It is undertaken via the same flexible multi-modal study mode, allowing busy clinicians to study around their work schedule.

This course provides a broad framework from which to manage clinical health care systems by attention to human resource, financial, information, medico-legal, political, cultural, economic, ethical, industrial, technological and psychosocial issues.

Progression to further studies
This course articulates with M6008, Master of Health Services Management.

Graduate Certificate in Health Services Management

The Graduate Certificate in HSM provides an introduction to key concepts within the MHSM course, comprising a mix of four core and elective units over one year part-time. It is well suited to clinicians who practice every day in a complex healthcare environment and are seeking some additional skills to assist them to successfully navigate and manage their team to improve the quality of care that they deliver.

This course, offered by the Department of Epidemiology and Preventive Medicine, targets professionals working within the health care sector who wish to expand their knowledge and skills in the management of health services. It provides core competencies in health services management, including leadership, human resource and financial management of health services.

Progression to further studies
This course articulates with M5007 Graduate Diploma in Health Services Management and then M6008 Master of Health Services Management or can lead to M6024 Master of Public Health.
### Entry requirements
An Australian undergraduate degree (or equivalent) in an appropriate discipline and two years of relevant professional experience or qualification/experience or satisfactory substitute that the faculty considers to be equivalent.

### Professional accreditation
Medical graduates enrolled in the master’s degree and who are undertaking this course and wanting to satisfy the requirements for The Royal Australasian College of Medical Administrators (RACMA) Fellowship need to complete the following units: MPH5040, MPH5041, MPH5213 and MPH5283.

These degrees are accredited by the Australasian College of Health Service Management (ACHSM) for college entry and advancement purposes.

### Career fields
Include: medical, nursing and allied health clinician with management responsibility or interest, general hospital administration, quality assurance management, health care coordination, case managers.

### Alternate exit(s)
You can exit this course early provided you’ve satisfied the requirements for that award during your enrolment in the master’s course:

- **Graduate Certificate in Health Services Management (course code: M4006)** after successful completion of units: MPH5266, MPH5268 and two elective units.
- **Graduate Diploma in Health Services Management (course code: M5007)** after successful completion of units: MPH5266, MPH5268, MPH5020, MPH5267, MPH5269, MPH5272 and one elective.

### Timetable and venue
[med.monash.edu/epidemiology/pgrad](med.monash.edu/epidemiology/pgrad)

### Further information

#### Associate Professor (Practice)
Susannah Ahern
Course coordinator
E: susannah.ahern@monash.edu
[monash.edu/pubs/handbooks/courses](monash.edu/pubs/handbooks/courses)

#### Ms Lynne Denby
Program Manager
E: lynne.denby@monash.edu
[monash.edu/pubs/handbooks/courses](monash.edu/pubs/handbooks/courses)

**NOTE:** MPH5020 can be undertaken in either semester one or two

Students must complete compulsory unit block attendance.

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### Course structure

**Units are six credit points unless otherwise stated.**

Note: To satisfy the requirements for the RACMA Fellowship core units required are: MPH5040, MPH5041, MPH5213 and MPH5283.

<table>
<thead>
<tr>
<th>Part-time structure – 72 credit points</th>
<th>M4006 Graduate certificate</th>
<th>M5007 Graduate diploma</th>
<th>M6008 Master's</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Semester 1</td>
<td>MPH5266 Clinical leadership and management</td>
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<td></td>
<td>MPH5268 Financial issues in health care management</td>
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<tr>
<td>Semester 2</td>
<td>MPH5020 Introduction to epidemiology and biostatistics</td>
<td>Elective</td>
<td></td>
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<tr>
<td></td>
<td>MPH5267 Principles of health care quality improvement</td>
<td>Elective</td>
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<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Semester 1</td>
<td>MPH5269 Foundations of health policy</td>
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<tr>
<td></td>
<td>Elective</td>
<td></td>
<td></td>
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<tr>
<td>Semester 2</td>
<td>MPH5265 Law for health systems</td>
<td></td>
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<tr>
<td></td>
<td>MPH5272 Reform and development of health services</td>
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<tr>
<td><strong>YEAR 3</strong></td>
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<tr>
<td>Semester 1</td>
<td>MPH5273 HSM case study</td>
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<tr>
<td></td>
<td>Elective</td>
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<tr>
<td>Semester 2</td>
<td>MPH5273 HSM case study</td>
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<tr>
<td></td>
<td>Elective</td>
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</tbody>
</table>

**Elective units – students complete 3 from the list below**

- MPH5042 Climate change and public health
- MPH5213 Research methods
- MPH5283 Ethics, good research practice and practical research skills
- POM5005 Human factors for patient safety
- HEC5970 Introduction to health economics
- MPH5286 Applying and practising the principles of patient safety and quality improvement
- MAP4200 Improving Indigenous equity in professional practice
- NUR5315 Advanced nursing practice in context (12 cpts)
- NUR 5327 Management and leadership of professional nursing practice (12 cpts)
- Any graduate unit offered by the Department of Epidemiology and Preventive Medicine (excluding units: MPH5301-MPH5315; EPM5001-EPM5015).

Further information available at: [monash.edu/pubs/handbooks](monash.edu/pubs/handbooks)
Master of Health Administration – online

The course provides the academic preparation for managers in health care and public health, and those who aspire to such a career.

This course offers a fully online study experience and the opportunity to complete a Master’s degree within 2 years full time via our innovative ‘carousel model’ where units are taught in individual 6-week blocks. The MHA provides a structured program that consists of a range of core health management and business units delivered by Faculty from SPH-HPM and the Monash Business School.

The MHA provides an in-depth focus on the necessary core competencies in management as well as a comprehensive understanding of contemporaneous issues impacting the health care industry. The course enhances your economic, statistical, financial and regulatory understanding of the health sector. Consolidation and strengthening of these core competencies will ensure you have the essential skills set for a wide variety of employment opportunities in government and or private agencies, health insurance agencies, aged care facilities, mental health organisations and rehabilitation settings to name a few.

Take advantage of learning from our highly qualified academics and industry leaders who have both strong business and public health experience. Our teaching staff will assist you in translating and applying specialised knowledge within the highly demanding and complex environment of today’s health care system.

Our Master of Health Administration offers an online study solution for health care professionals working within the field wishing to combine study with a real world management experience.

Entry requirements
An Australian undergraduate degree (or equivalent) in an appropriate discipline and two years of relevant professional experience or qualification/experience or satisfactory substitute that the faculty considers to be equivalent.

Professional accreditation
This degree is accredited by the Australasian College of Health Service Management (ACHSM).

Alternate exit(s)
You can exit this course early and apply to graduate with one of the following awards, provided you’ve satisfied the requirements for that award during their enrolment in the master’s course:
- Graduate Certificate in Health Administration after successful completion of 24 points (four units) of study
- Graduate Diploma in Health Administration after successful completion of 48 points (eight units) of study.

Course structure
These units are run in a carousel model and are only offered once every 24 months in a teaching period consisting of six weeks.

Units are six credit points, unless otherwise stated. You’ll complete:

<table>
<thead>
<tr>
<th>Teaching Period</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td></td>
</tr>
<tr>
<td>TP1</td>
<td>MPH5308 Developing health systems</td>
</tr>
<tr>
<td>TP2</td>
<td>MPH5312 Advances in managing patient care processes</td>
</tr>
<tr>
<td>TP3</td>
<td>MPH5315 Introduction to management</td>
</tr>
<tr>
<td>TP4</td>
<td>MPH5301 Health systems and policy</td>
</tr>
<tr>
<td>TP5</td>
<td>MPH5302 Biostatistics: concepts and applications</td>
</tr>
<tr>
<td>TP6</td>
<td>MKF5505 Marketing for health care managers</td>
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<tr>
<td>2019</td>
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<tr>
<td>TP1</td>
<td>MPH5304 Leading and managing in public health and health care</td>
</tr>
<tr>
<td>TP2</td>
<td>MPH5305 Epidemiology: concepts and applications</td>
</tr>
<tr>
<td>TP3</td>
<td>HEC5979 Health economics</td>
</tr>
<tr>
<td>TP4</td>
<td>MPH5311 Safety and quality in health care#</td>
</tr>
<tr>
<td>TP5</td>
<td>MPH5307 Introduction to health law principles</td>
</tr>
<tr>
<td>TP6</td>
<td>AC5268 Accounting for health care managers</td>
</tr>
</tbody>
</table>

# If you’re working towards The Royal Australasian College of Medical Administrator’s Fellowship, you must complete MPH5306 Evaluation in public health; all other students must complete MPH5311.

Further information

Associate Professor (Practice)
Susannah Ahern
Course Coordinator

Ms Lynne Denby
Program Manager

Admissions
E: admissions.online@monash.edu
monash.edu/study/courses/find-a-course/2018/health-administration/M6007
monash.edu/pubs/2018handbooks/courses/M6007.html

Census dates and teaching periods
monash.edu/enrolments/dates/census

STUDY MODE
Online

STUDY LENGTH
Four years part-time
Two years full-time

COURSE STRUCTURE
72 credit points (12 core units)

COURSE CODE: M6007
Master of Occupational and Environmental Health

This course equips workplace professionals with the skills and knowledge in quality-level occupational health and safety services in order to identify, prevent and manage occupational and environmental health risks and related health problems.

You’ll learn to systematically control health-related hazards and exposures within a broad range of workplace and community environments. The course enables you to take responsibility for high-level independent judgements, and initiate, implement and evaluate risk management approaches within varied occupational and environmental contexts. It is particularly suitable for medical practitioners, nurses, allied health personnel, scientists and occupational health and safety managers.

STUDY MODE
Domestic students
Multi-modal and compulsory block requirements
International students
On-campus

STUDY LENGTH
Three years part-time
1.5 years full-time

COURSE STRUCTURE
72 credit points (12 units)

COURSE CODE: M6026
CRICOS CODE: 026957E

Graduate Diploma of Occupational and Environmental Health

This course gives health professionals the attitude, skills and knowledge necessary to responsibly provide preventive health services to both reduce the health impacts of disease and injury, and assist to systematically address hazards arising from workplaces and within communities.

The course caters for the special needs of medical practitioners, nurses, allied health personnel, scientists or OHS managers wishing to develop adaptable and responsible skills as OHS and environmental health practitioners.
Course structure

Units are six credit points unless otherwise specified.

- Graduate certificate
- Graduate diploma
- Master’s

GradDip and MOccEnvHlth Coursework option – part-time structure – 72 credit points

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MPH5241 Introduction to occupational health and safety</td>
<td>MPH5222 Assessment and control of workplace hazards</td>
</tr>
<tr>
<td></td>
<td>MPH5243 Chemical and biological hazards</td>
<td>MPH5244 Ergonomic and physical hazards</td>
</tr>
<tr>
<td></td>
<td>MPH5222 Assessment and control of workplace hazards</td>
<td></td>
</tr>
</tbody>
</table>

YEAR 1

Semester 1
- MPH5241 Introduction to occupational health and safety
- MPH5243 Chemical and biological hazards

Semester 2
- MPH5222 Assessment and control of workplace hazards
- MPH5244 Ergonomic and physical hazards

YEAR 2

Semester 1
- MPH5242 Psychosocial work environment
- MPH5040 Introductory epidemiology

Semester 2
- MPH5203 Environmental influences on health
- MPH5276 Safety management systems

YEAR 3

Semester 1
- MPH5041 Introductory biostatistics

Semester 2
- Elective
- Elective

MOccEnvHlth – Research option – part-time structure – 72 credit points

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MPH5241 Introduction to occupational health and safety</td>
<td>MPH5041 Introductory biostatistics*</td>
</tr>
<tr>
<td></td>
<td>MPH5243 Chemical and biological hazards</td>
<td></td>
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<tr>
<td></td>
<td>MPH5222 Assessment and control of workplace hazards</td>
<td>MPH5244 Ergonomic and physical hazards</td>
</tr>
<tr>
<td></td>
<td>MPH5222 Assessment and control of workplace hazards</td>
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</tbody>
</table>

YEAR 2

Semester 1
- MPH5040 Introductory epidemiology*
- MPH5041 Introductory biostatistics*

Semester 2
- MPH5213 Research methods
- MPH5203 Environmental influences on health

YEAR 3

Semester 1
- MPH5231 Research design and project proposal**
- MPH5242 Psychosocial work environment

Semester 2
- MPH5232 Research conduct analysis, write-up and submission**
- Elective

Elective units from the list below
- MPH5213 Research methods
- MPH5231 Research design and project proposal
- MPH5232 Research conduct analysis, write-up and submission
- MPH5276 Safety management systems
- BTF5910 Sustainability regulation
- Any graduate unit offered by the Department of Epidemiology and Preventive Medicine (excluding units: MPH5301-MPH5315; EPM5001-EPM5015).

* Students must achieve a minimum mark of 70% in MPH5040 and MPH5041 to progress into the research pathway

** Students must discuss the availability of this option with the course coordinator at the commencement of their studies as the course structure may need changing.

Further information available at: monash.edu/pubs/handbooks
Entry requirements
An Australian undergraduate degree (or equivalent) in a related discipline and qualification or experience, or satisfactory substitute that the faculty considers to be equivalent.

Professional recognition
This course fulfils the core discipline requirements of a Master of Occupational and Environmental Health for the Australasian Faculty of Occupational and Environmental Medicine, Royal Australasian College of Physicians.
This course is also accredited by the Australian OHS Education Accreditation Board. Graduates meet the requirements for certification as GradOhSPProf.

Career fields
Include: occupational medicine, nursing or management positions within industry, government or independent professional practice.

Progression to further studies
If you successfully complete the Graduate Diploma of Occupational and Environmental Health, you’re eligible to progress to M6026 Master of Occupational and Environmental Health.

Alternate exit(s)
You can exit early provided you have satisfied the requirements for that award during your enrolment in this graduate diploma course:
- Graduate Certificate of Occupational Health after successful completion of 24 points comprising MPH5222, MPH5241, MPH5243, MPH5244
- Graduate Diploma of Occupational and Environmental Health after successful completion of 48 points comprising MPH5203, MPH5222, MPH5040, MPH5241, MPH5242, MPH5243, MPH5244, MPH5276.

Timetable and venue
med.monash.edu/epidemiology/pgrad

Census dates and teaching periods
monash.edu/enrolments/dates/census

Further information
Professor Malcolm Sim
Course coordinator
E: malcolm.sim@monash.edu
monash.edu/pubs/handbooks/courses/

NOTE: Students must complete compulsory unit block attendance.
International students – a separate recommended full-time on-campus enrolment is available for international students. Please review any variation to recommended enrolment with the course coordinator. Check unit details and prerequisites prior to enrolment.
Graduate teaching staff

Leaders in their field

**PROFESSOR M ACKLAND**

**PSM, FAFPHM**

**Professor of Public Health**

- Served as Deputy Chief Health Officer (CHO) for Victoria from 2014 and A/Chief Health Officer 2015-16; previously appointed as Senior Medical Advisor to the Office of the Chief Health Officer in 2007. Prior to this he managed the Chronic Disease Surveillance and Epidemiology program for the Victorian Health Department.
- A long standing interest in public health education he has been actively involved in developing the Australasian Faculty of Public Health Medicine (AFPHM) teaching, learning and assessment program; currently Lead Fellow in Accreditation for the AFPHM, and a member of the AFPHM Education Committee. He is involved in the AFPHM supervisor professional development program and is both a supervisor and mentor for AFPHM advanced trainees.
- His principal interests are in public health policy and the translation of public health research to policy and program development, chronic disease prevention, risk management especially in the context of health protection programs and public health physician workforce development in Australasia.

**ASSOCIATE PROFESSOR (PRACTICE) S AHERN**

**MBBS (Hons), MBA, PhD, FRACMA**

**Senior Lecturer and Head, Registry Sciences Units, Acting Course Coordinator, Health Services Management**

- Undertook PhD in relation to junior doctor training in the contemporary health service environment.
- In role as Head RSU and is the data custodian for the Australian Cystic Fibrosis Data Registry, member of the steering committees of the Bariatric Surgery Registry and the Australian Breast Device Registry.
- Extensive experience in senior management roles, including previous appointments as Director of Medical Services (Alfred Health), Medical Director of the Postgraduate Medical Council of Victoria (PMCV) and as the Executive Director Medical Services and Clinical Governance (Peninsula Health).
- Board positions previously held with the Centre for Health Innovation (Alfred Health) and the Confederation of Postgraduate Medical Education Councils (CPMEC).

**DR G BENKE**

**BSc, MAppSci, GDipQuanMeth, PhD, MAIF, MAAS, FAIOH**

**Senior Research Fellow**

- Extensive experience as an occupational hygienist in industry and research. He has been involved in the Healthwise study, Lead and Cancer study, Morpheus study, INTEROCC study and the ECRHS study.
- In 2008 Geza was President of the Australian Institute of Occupational Hygienists.
- Research interests include occupational/environmental epidemiology exposure assessment, exposure assessment methodology, occupational cancer and respiratory epidemiology.

**DR B BILLAH**

**BSc(Hons), MSc, MAS, PhD**

**Senior Lecturer**

- Research interests include risk modelling (e.g. mortality risk), modelling for comparison of institutional performance (e.g. hospital/surgeon performance in cardiac surgery), statistical inference, prediction and model selection, among others.
- A chief biostatistician and consultant in a number of research projects in Australia and particularly in the Department of Epidemiology and Preventive Medicine.
- Recently, Baki has developed the AusSCORE model that would help to appropriately guide Australian cardiac surgeons and patients in assessing preoperative risk of cardiac mortality.

**DR L BISHOP**

**BA, LLB PhD**

**Lecturer**

- A Research Governance Officer with SPHPM.
- Research interests include medical law and ethics, women’s and children’s rights.
- The convenor of the Haemophilia Auxiliary of the Royal Children’s Hospital, a founding member and former convenor of Victorian Women Lawyers, and member and former board member of Australia Women Lawyers.
DR S BRAAF

BN, M Training and Development (Melbourne) PhD (Melbourne)

Research Fellow

- Working on a project investigating outcomes following serious injury. The RESTORE (REcovery after Serious Trauma—Outcomes, Resources use and patient Experiences) project is a population-based project designed to address the knowledge gap regarding the long-term, societal and family consequences of injury and recovery following trauma.
- Previous research at the University of Melbourne involved exploring health care professionals’ communication and health care quality and safety. Her research interests include safety and quality in health care and trauma outcomes.

DR P BRADFORD

MBBS FRACMA MPH FACHSM

Senior Lecturer

- Significant governance and leadership experience in hospital management, having held several Health Service Executive Roles, most recently having been the Executive Director Clinical Governance and Medical Services at Melbourne Health.
- A substantial record of leading and implementing organisational and cultural change in the health care sector, and combines strong strategy and policy perspectives with highly developed skills in implementation.

PROFESSOR R BUCHINDER

MBBS (Hons) (Monash), MSc (Toronto), PhD (Monash), FRACP

Director, Monash Department of Clinical Epidemiology, Cabrini Hospital

- An Australian NHMRC Practitioner Fellow.
- A rheumatologist and clinical epidemiologist who combines clinical practice with research in a wide range of multidisciplinary projects relating to arthritis and musculoskeletal conditions.
- Joint Coordinating Editor of the Cochrane Musculoskeletal Group, and chair the Australian Rheumatology Association Database (ARAD) management committee.

PROFESSOR F CICUTTINI

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

Head, Musculoskeletal Unit DEPM

Head Rheumatology Unit, Alfred Hospital

- Current research includes using magnetic resonance imaging to understand factors that affect joint cartilage in healthy and diseased states.
- Current advisory panel membership includes NHMRC Research Fellowships Advisory Panel, Royal Australasian College of Physicians Research Advisory Committee and Jacquot Selection Committee, RACP, and OARSI study group on osteoarthritis of the hand.

MS M DRIEBERG

BAppSc (HealthSc), MHlthSc (Health Prom)

Lecturer

- Consultant specialising in integrated health promotion, community engagement and government relations.
- Previously served as the Mayor of the City of Monash and a ministerial adviser to a former health minister.
- A background in public health, urban planning and governance, and passionate about settings-based health promotion.

ASSOCIATE PROFESSOR A EARNEST

BSocSc (Hons), DLSHTM, MSc, PhD

Senior Biostatistician, Registry Sciences Unit

Lecturer

- Current research interest is in risk adjustment and time series analysis of clinical registry data and Bayesian spatio-temporal models. He has developed and applied these models on a number of clinical registries in Australia, Singapore and Cambodia.
- Previous appointments: Director, Centre for Quantitative Medicine (CQM) at Duke-NUS in Singapore. Twenty years of consultative and collaborative methodological input to various collaborators with outcomes published in peer-reviewed international journals.
- Received several research awards, including the University of Sydney International Research Collaboration Award in 2013 and the SingHealth Partners in Education Award: RISE award for mentors and teachers of residents in Singapore. He was awarded the status of Chartered Statistician (C. Stat) by the Royal Statistical Society in London in 2003.

ASSOCIATE PROFESSOR S EVANS

BN, MCE, PhD

Head, Clinical Registry Unit

Lecturer and Senior Research Fellow

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

PROFESSOR A FORBES

BPhysio (Hons), MBiostats, MAppSc, PhD

Head, Research Methodology

Division Head, Biostatistics Unit

Lecturer and Senior Research Fellow

- Research interests include development of analytical methods for interrupted time series designs, the application of causal modelling principles to practical problems, and latent variable methods.
- Provides statistical consulting within the Faculty of Medicine, its affiliated institutes, and for external bodies.

PROFESSOR B GABBE

BPhysio (Hons), MBiostats, MAppSc, PhD

Head, Emergency and Trauma Research Unit

Lecturer

- An injury epidemiologist with a clinical background in physiotherapy.
- A chief investigator of the Victorian State Trauma Registry, Victorian Orthopaedic Trauma Outcomes Registry, and the Bi-National Burns Registry.
- Her research focuses on the evaluation of trauma systems, trauma system improvements and measuring the burden of injury. A particular research focus is quantifying the outcomes of non-fatal injury and improving measurement of non-fatal injury burden.

MS C GILMOUR

Unit Coordinator, Lecturer

- A long history working in health, safety and environment settings, including defence and manufacturing.
- An experienced health, safety and environment practitioner who has developed, managed and evaluated OHS systems for a diverse range of organisations.
ASSOCIATE PROFESSOR D GLASS

MA, MSc, PhD, DipOccHyg
Associate Professor (Research)

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

DR R HALL

BSc (Hons), MBBS, DipRACOG, MPH, FRACMA, FAFPHM, MASM, FPHTA
Senior Research Fellow/Lecturer

- 35 years’ public health experience, at domestic, state, national and international levels. Four years in the Northern Territory in Aboriginal health, including at the Urapuntja Health Service at Utopia Station.
- Chair of the Technical Advisory Committee on Immunisation 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.

ASSOCIATE PROFESSOR D HILLIS

MB BS (Hons), DipRANZCOG, MHA, DD, FRACGP, FRACMA, FCHSE, FAICD, FRACS, (Hon)
Senior Lecturer

- Significant governance and leadership experience in education and hospital management, research and regulatory activities. His most recent appointment was as the CEO of the Royal Australasian College of Surgeons between 2003 and 2017.
- A substantial record of leading and implementing organisational and cultural change in the challenging health care and educational sectors, and combines strong strategy and policy perspectives with highly developed skills in implementation.

DR C HODGSON

BAppSc (Physio), PGDip (Cardio), MResearch, PhD, FACP
Senior Research Fellow

- Senior Research Fellow at the ANZiC-RC leading programs of research in early rehabilitation in intensive care (TEAM) and recovery following critical illness (ICU recovery).
- Research interests include: ARDS, mechanical ventilation, extracorporeal membrane oxygenation (ECMO), ICU acquired weakness, early rehabilitation and long-term outcomes of ICU survivors.

DR M HUSSAIN

MBBS (Bangladesh), MPH (Thailand), PhD (Australia)
Lecturer and Research Fellow, Musculoskeletal Unit

- Awarded the prestigious Endeavour International Postgraduate Research Scholarship, Australian Postgraduate Award and a Faculty Excellence Award (Monash University) to join a PhD. Her PhD project investigated the novel and systemic risk factors for knee and hip osteoarthritis. She was awarded the Arthritis Australia Foundation AFA-ARA Heald fellowship.
- Dr Hussain has diverse experiences in working with several public health programs funded by WHO, CDC USA. She has been involved in working with large databases, i.e. the AusDiab study, the Health 2000, the Young Finns Study, the ALSWH etc.
- Research interest involves exploring the metabolic and inflammatory factors in musculoskeletal conditions, particularly osteoarthritis and low back pain. She developed extensive expertise in epidemiological methods, designing and implementing large-scale studies, data linkage studies, monitoring programs.

PROFESSOR J IBRAHIM

MBBS, GradCert HE, PhD, FAFPHM, FRACP
Senior Lecturer

- Consultant physician in geriatric medicine, in active clinical practice.
- Education and research member of the Centre of Research Excellence in Patient Safety; DEPM Monash University.
- Education and research member of the Department of Forensic Medicine, Victorian Institute of Forensic Medicine, Monash University.
- Adjunct Professor, Australian Centre for Evidence Based Aged Care at La Trobe University.
- Research interests in quality of clinical care, performance measurement, medico-legal death investigation and patient safety.

PROFESSOR D ILIC

BSc, GDipRepSci, MRepSci, PhD, GCHPE
Director, Teaching and Learning Head, Medical Education Research and Quality (MERQ) Unit Senior Lecturer and Research Fellow

- Coordinates evidence-based clinical practice curriculum for the MBBS degree.
- Course coordinator, Bachelor of Health Science.
- Research interest in male reproductive health issues.

DR R JOHNSTON

BSc (Hons), PhD
Managing Editor, Cochrane Musculoskeletal Group, Monash Department of Clinical Epidemiology, Cabrini Hospital

- Managing Editor of the Australian Editorial Base of the Cochrane Musculoskeletal Review Group and author on several Cochrane systematic reviews.
- Extensive experience in conducting systematic reviews to underpin evidence-based decision-making in clinical practice and government policy.
- Experienced in teaching evidence-based clinical practice and how to conduct systematic reviews to clinical staff and students.
**MS V KAY**

BA, Grad Dip Pub Hlth, MA
Unit coordinator
- Previous experience as a social policy and health researcher/adviser in the Victorian Parliament and as a health promotion coordinator in a Victorian Primary Care Partnership.
- Research interests include health promotion; feminist theory; and knowledge translation and policy.
- A member of the Friends of the Climate and Health Alliance (CAHA) and the Australian Health Promotion Association (AHPA).

**PROFESSOR D LI EW**

MBBS (Hons), BMedSci, FRACP, PhD, CertHealthEcon
Chair of Clinical Outcomes Research Co-Director, Monash Centre of Cardiovascular Research and Education in Therapeutics
- A consultant physician at the Alfred Hospital in clinical pharmacology and general medicine.
- Previous appointments: from 2010 to 2015, Chair of Clinical Epidemiology at the University of Melbourne, Director of the Melbourne EpiCentre (Centre for Clinical Epidemiology and Health Services Research) and Head of Medical Unit 1 at the Royal Melbourne Hospital.
- Research capacity and interests include epidemiology, clinical trials, health services research and health economics. His research productivity is highlighted by more than 170 peer-reviewed journal articles, seven book chapters and more than $40 million in NHMRC, ARC and CRC research funding. He is also passionate about teaching, and is involved in all levels from undergraduate courses to postdoctoral fellowships.
- Member of the Protocol Advisory Sub-Committee (PASC) of the Commonwealth Medical Services Advisory Committee (MSAC) and the Optometry Board Scheduled Medicines Advisory Committee of the Australian Health Practitioner Regulation Agency (AHPRA).

**DR T KEGEL**

BA (Hons), GradDipEpiBio, MA, PhD
Lecturer
- An occupational epidemiologist with expertise in the analysis of large data sets and the use of administrative data for research purposes.
- Research interests include the psychosocial work environment, work, gender and health, workers’ compensation systems, and work and health policy and practice.

**DR H KELSALL**

MBBS, MPH, MHlthSc (PHP), PhD, FAFPHM
Senior Research Fellow, MonCOEH
- Course coordinator, MPH multi-modal program.
- Active in public health capacity building and research training, supervising doctoral students and visiting overseas academics.
- Research interests include military and veterans' health, epidemiological research, public health medicine and training, and injury prevention.

**PROFESSOR K LEDER**

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

**ASSOCIATE PROFESSOR B LOFF**

BA, LLB, MA (Medical Law and Ethics), PhD
Head, Human Rights and Bioethics Unit Course Coordinator, Master of International Health
Senior Lecturer and Senior Research Fellow
- Director, Michael Kirby Centre for Public Health and Human Rights.
- Specific areas of interest lie at the intersections of human rights and public health.

**DR JESSICA LOCKERY**

MBBS, GradDip (Arts)
ASPREE Medical and Data Manager
- Data systems designer and data management consultant with a clinical background in medicine.
- Data manager for the ASPREE study and Investigator of ASPREE-Knee, Aspirin To Inhibit SEPSIS (ANTISEPSIS), ASPREE-Fracture and ASPREE-Depression sub-studies.
- Her research focuses on the evaluation of health data quality, health data systems design and medication use in the elderly.

**DR E MACFARLANE**

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

**PROFESSOR D MAGLIANO**

BApPSc (Hons), PhD
Senior Epidemiologist Lecturer
- Holds a part-time position at Monash University and works as a senior epidemiologist at the Baker IDI Heart and Diabtes Institute.
- Research interests include diabetes and cardiovascular disease.
- Her current project involves preparing a proposal for a study of cardiovascular disease in elderly Victorians.

**MS K MAKAROUNAS-KIRCHMANN**

BEC, MEc
Senior Lecturer
- Director, KMC Health Care
- Current research interest in economic evaluations and pharmaceutical markets.
MS N MOLLARD
BA (Philosophy), LLB (Hons), MBioethics
Senior Fellow, barrister and accredited mediator
Lecturer
- Extensive years of experience teaching in litigation and civil procedure, torts, evidence, criminal law and in legal research.
- A reporter for the (former) Victorian Reports, a blogger for the Victorian Bar (Bloggers@theBar), and has published a number of papers in the areas of medical negligence and forensic medicine.

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

PROFESSOR I ROUSE
B.Sc (Hons), GradDipHealthSci, PhD
- Has significant experience working as a consultant in health, education and change management. He has been the Dean of three faculties and national and international universities. A substantial record of leading and implementing organisational and cultural change and a substantial publication record.

DR H ROWE
BSc (Hons), PhD
Senior Research Fellow, Jean Hailes Research Unit
- A background in the biological and psychological sciences and health promotion.
- Current research interests in perinatal mental health, fertility management and health service evaluation.
- A member of the editorial board of the International Breastfeeding Journal, Associate Editor of BMC Pregnancy and Childbirth, and Secretary General of the International Society of Psychosomatic Obstetrics and Gynaecology.

DR S MCGUINNESS
MBBS, BMedSci, DTMH, MPHTM, FRACP
Lecturer, Infectious Diseases Epidemiology Unit
- An infectious diseases physician.

DR A SILLCOCK
MBBS (Hons) FAFOEM (RACP) Grad Dip Occ Hyg
Senior Lecturer
- Extensive experience as an occupational physician in various industries including railways, oil and car manufacturing
- Considerable experience in assessing fitness for work and biological monitoring
- Active in occupational medical organisations and was President of the Australian and New Zealand Society of Occupational Medicine (ANZSOM) from 2012-2015.

DR R STUCKEY
BAppSc, GradDipErgonomics PhD, MPH
Senior Lecturer
- Experienced occupational health practitioner who has worked across industry as a consultant and trainer for more than 30 years.
- An ergonomist and OHS adviser with qualifications in occupational therapy, ergonomics and public health.

ASSOCIATE PROFESSOR A WLUKA
MBBS, FRACP, PhD, Grad CertHealthEcon
Senior Research Fellow
- Consultant Rheumatologist, Alfred Hospital.
- Research interests: osteoarthritis and prediction of disease.

PROFESSOR R WOLFE
BSc, PhD
Biostatistician
- Provides statistical support for a wide range of epidemiological and clinical research studies.
- Undertakes statistical methodological research.
- Health, coupled with a comprehensive understanding and practical experience in health programming in a development context.
Units 2018

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

Introduction to health economics
HEC5970

LECTURER Dr S Kassenboehmer

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 1

CAMPUS Clayton

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

monash.edu/pubs/2018handbooks/units/HEC5970.html

Economic evaluation in health care
HEC5973

LECTURER Associate Professor S Zavarsek

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 2

CAMPUS Clayton

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

monash.edu/pubs/handbooks/units/HEC5973.html

Principles of health economics for developing countries
HEC5975

LECTURER Associate Professor D Mortimer

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 1

CAMPUS Alfred

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

monash.edu/pubs/2018handbooks/units/HEC5975.html
Health indicators and health surveys  
EPM5001

**LECTURER**  
Dr A Teixeira-Pinto

**POINTS** 6

**MODE OF STUDY**  
Off-campus

**SEMESTER** 1

**CAMPUS**  
Alfred

**Co-requisite**  
MPH5040

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

monash.edu/pubs/2018handbooks/units/EPM5001.html

Mathematical background for biostatistics  
EPM5002

**LECTURER**  
Dr T Mattner

**POINTS** 6

**MODE OF STUDY**  
Off-campus

**SEMESTER** 1 or 2

**CAMPUS**  
Alfred

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

monash.edu/pubs/handbooks/units/EPM5002.html

Principles of statistical inference  
EPM5003

**LECTURER**  
Associate Professor P Kelly

**POINTS** 6

**MODE OF STUDY**  
Off-campus

**SEMESTER** 1 or 2

**CAMPUS**  
Alfred

**Prerequisites**  
EPM5002, EPM5014

The unit will introduce the core concepts of statistical inference, beginning with estimators, confidence intervals, type I and II errors and p-values. The emphasis will be on the practical interpretation of these concepts in biostatistical contexts, including an emphasis on the difference between statistical and practical significance. Classical estimation theory, bias and efficiency. Likelihood function, likelihood based methodology, maximum likelihood estimation and inference based on likelihood ration, Wald and score test procedures. Bayesian approach to statistical inference vs classical frequentist approach. Nonparametric procedures, exact inference and resampling based methodology.

monash.edu/pubs/handbooks/units/EPM5003.html

Linear models  
EPM5004

**LECTURER**  
Associate Professor S Heritier

**POINTS** 6

**MODE OF STUDY**  
Off-campus

**SEMESTER** 1 or 2

**CAMPUS**  
Alfred

**Co-requisite**  
EPM5003

**Prerequisites**  
EPM5002, EPM5014, MPH5040

This unit explores biostatistical applications of linear models with an emphasis on underlying theoretical and computational issues, practical interpretation and communication of results. By a series of case studies, you’ll explore extensions of methods for group comparisons of means (t-tests and analysis of variance) to adjust for confounding and to assess effect modification/interaction, together with the development of associated inference procedures. Multiple regression strategies and model selection issues will be presented together with model checking and diagnostics. Nonparametric regression techniques, and random effects and variance components models will also be outlined.

monash.edu/pubs/handbooks/units/EPM5004.html

Data management and statistical computing  
EPM5005

**LECTURER**  
Dr J Louise

**POINTS** 6

**MODE OF STUDY**  
Off-campus

**SEMESTER** 1 or 2

**CAMPUS**  
Alfred

This unit will describe and demonstrate the complexity of data management and statistical computing methods. It will enable you to communicate effectively about the issues in storing and retrieving information, and in assessing the quality and limitations of data repositories. It uses examples from real data sets to give you practical skills in data management, assessment of data quality, and handling and linking of large volumes of data.

monash.edu/pubs/2017handbooks/units/EPM5005.html
Clinical biostatistics
EPM5006
LECTURER Professor A Dobson
POINTS 6
MODE OF STUDY Off-campus
SEMESTER 1
CAMPUS Alfred
Co-requisite EPM5004
Prerequisites EPM5002, EPM5003, EPM5007, EPM5014, MPH5040
monash.edu/pubs/handbooks/units/EPM5006.html

Longitudinal and correlated data analysis
EPM5008
LECTURER Professor A Forbes, Associate Professor J Carlin
POINTS 6
MODE OF STUDY Off-campus
SEMESTER 1
CAMPUS Alfred
Co-requisite EPM5004
Prerequisites EPM5002, EPM5003, EPM5004, EPM5009, EPM5014, MPH5040
This unit will develop statistical models for longitudinal and correlated data in medical research. The concept of hierarchical data structures will be developed, together with simple numerical and analytical demonstrations of the inadequacy of standard statistical methods. Normal-theory model and 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 and generalised linear mixed models. Limitations of traditional repeated measures analysis of variance and non-exchangeable models.
monash.edu/pubs/2017handbooks/units/EPM5008.html

Categorical data and generalised linear models
EPM5009
LECTURER Dr M Jones
POINTS 6
MODE OF STUDY Off-campus
SEMESTER 2
CAMPUS Alfred
Co-requisite EPM5004
Prerequisites EPM5002, EPM5003, EPM5014, MPH5040
This unit will explore biostatistical applications of generalised linear models with an emphasis on underlying theoretical issues, and practical interpretation of the results of fitting these models. Relevant methods for 2 x 2 and 2 x k tables extended into logistic regression for a binary outcome as a special case of generalised linear modelling. Measures of association and modelling techniques for ordinal outcomes. Methods for analysing count data. Techniques for dealing with matched data, e.g. from case control studies.
monash.edu/pubs/handbooks/units/EPM5009.html

Design of randomised controlled trials
EPM5007
LECTURER Dr A Salter
POINTS 6
MODE OF STUDY Off-campus
SEMESTER 2
CAMPUS Alfred
Prerequisites EPM5002, MPH5040
This unit will introduce randomised comparisons as a major tool used in medical research and the basis of providing evidence for improving clinical practice. By developing problems based on clinical questions, the need and value of different experimental designs will be introduced and expanded. Within this context, issues with regards to randomisation, ethical issues, clinical study design and analysis interpretation will be developed, as will selection of outcome variables, surrogate endpoints and dealing with missing data. Efficiency issues such as sample size and power will be introduced at appropriate points in the unit.
monash.edu/pubs/handbooks/units/EPM5007.html

Survival analysis
EPM5010
LECTURER Dr K Beath
POINTS 6
MODE OF STUDY Off-campus
SEMESTER 1
CAMPUS Alfred
Prerequisites EPM5002, EPM5003, EPM5004, EPM5014, MPH5040
Biostatistical applications of survival analysis with emphasis on underlying theoretical and computational issues, practical interpretation and communication of results. Case studies; you’ll explore the various methods for handling survival data. Kaplan-Meier curve definition and its extension, survival prospects using logrank test, and confidence intervals for relative risks, graphical displays and assessing underlying assumptions. Mantel-Haenszel method’s connection to survival analysis. Cox proportional hazards model for handling continuous covariates. Various extensions of this model, including time-dependent covariates, multiple outcomes and censored linear regression model.
monash.edu/pubs/handbooks/units/EPM5010.html

Longitudinal and correlated data analysis
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecturer</th>
<th>Points</th>
<th>Mode of Study</th>
<th>Semester</th>
<th>Campus</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostatistics practical project</td>
<td>Professor A Forbes</td>
<td>6</td>
<td>Off-campus</td>
<td>1 or 2 or FY</td>
<td>Alfred</td>
<td>EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014, MPH5040</td>
<td>You'll be exposed to real-life biostatistical problems in an academic health research environment, industry or government under supervision by an experienced biostatistician with a staff or honorary appointment at Monash University.</td>
<td>EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014, MPH5040</td>
</tr>
<tr>
<td>Bayesian statistical methods</td>
<td>Associate Professor L Gurrin</td>
<td>6</td>
<td>Off-campus</td>
<td>2</td>
<td>Alfred</td>
<td>EPM5002, EPM5003, EPM5004, EPM5009, EPM5014, MPH5040</td>
<td>This unit provides a thorough introduction to the concepts and methods of modern Bayesian statistical methods with particular emphasis on practical applications in biostatistics.</td>
<td>EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014, MPH5040</td>
</tr>
<tr>
<td>Probability and distribution</td>
<td>Professor R Wolfe,</td>
<td>6</td>
<td>Off-campus</td>
<td>1 or 2</td>
<td>Alfred</td>
<td>EPM5002</td>
<td>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.</td>
<td>EPM5002</td>
</tr>
</tbody>
</table>
Foundations of international health

**EPM5023**

**LECTURER**
Associate Professor B Loff

**POINTS** 6

**MODE OF STUDY**
On-campus block of classes

**SEMESTER** 2

**CAMPUS** Alfred

This unit examines the colonial history that produced the policies informing international health practice and the contemporary issues that arise out of this history. A range of topics are considered, including problematic ambiguities hidden within the term 'global health'; contemporary approaches to international development; geopolitics and the neocolonial features of the current international health landscape; pandemics and complex humanitarian crises; and approaches to justice, exploitation and vulnerability.

Specific attention will be given to recent debates concerning ethical issues in international health research.

[monash.edu/pubs/handbooks/units/EPM5023.html](monash.edu/pubs/handbooks/units/EPM5023.html)

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Foundations of health promotion and program planning

**MPH5002**

**LECTURER**
TBC

**POINTS** 6

**MODE OF STUDY**
OCL online plus two block days

**SEMESTER** 1

**CAMPUS** Alfred

This unit provides opportunities to examine the impact of multiple factors that contribute to the health of populations, focusing on role of the social determinants of health, and to develop knowledge and skills in program planning for health promotion.

You’ll examine the values and principles that guide contemporary health promotion and its capacity to influence the determinants of health. You’ll develop skills in needs assessment, priority setting, designating targets for change, using evidence and theory to make intervention choices and establishing systems for program management.

The roles played by partnerships, capacity building and participation will be explored, and the steps towards improving program sustainability examined.

[monash.edu/pubs/handbooks/units/MPH5002.html](monash.edu/pubs/handbooks/units/MPH5002.html)

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Introduction to epidemiology and biostatistics

**MPH5020**

**LECTURER**
Dr M Davies, Professor F Cicuttini

**POINTS** 6

**MODE OF STUDY**
OCL online

**SEMESTER** 1 or 2

**CAMPUS** Alfred

Differences between descriptive and analytical epidemiology, strengths and weaknesses of different epidemiological study design, and basic concepts and methods of biostatistics, including confidence intervals, p-values and sample size, statistical tests for comparing groups, regression models and survival analysis.

Design and evaluation of clinical trials.

[monash.edu/pubs/handbooks/units/MPH5020.html](monash.edu/pubs/handbooks/units/MPH5020.html)

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Evaluation public health programs

**MPH5022**

**LECTURER**
TBC

**POINTS** 6

**MODE OF STUDY**
OCL online plus two block days

**SEMESTER** 2

**CAMPUS** Alfred

Program evaluation can provide valuable evidence to improve the delivery, reach and impact of public health strategies. This unit will equip you with the skills to evaluate disease prevention and health promotion strategies using a range of methodologies.

Levels of evaluation will be examined, including formative, process, impact and outcome evaluation, and the range of qualitative and quantitative methods suitable for answering different evaluation questions will be identified.

The complementary roles of different methodologies will be highlighted, with consideration given to approaches that will facilitate learning for practice.

There will be exploration and discussion of the evaluation challenges posed by the complexities of public health action and the contexts in which it is carried out.

[monash.edu/pubs/2017handbooks/units/MPH5022.html](monash.edu/pubs/2017handbooks/units/MPH5022.html)

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Improving Indigenous equity in professional practice

**MAP4200**

**LECTURER**
Associate Professor K Adams

**POINTS** 6

**MODE OF STUDY**
Off-campus

**SEMESTER** 1

**CAMPUS** Alfred

This unit develops and strengthens practical skills required for implementing Indigenous equity. Delivery of effective, high-standard services to Indigenous people is one of the enduring challenges facing a variety of organisations and providers. In this unit you’ll explore and engage in practical skills of: cultural safety; partnership building; organisational development; and analysis of the strengths-based evidence. You’ll be given the opportunity to critically analyse current practices in Indigenous equity, design evidence-based advocacy and create a strategic change plan of relevance to your professional work and aspirations.

[monash.edu/pubs/handbooks/units/MAP4200.html](monash.edu/pubs/handbooks/units/MAP4200.html)
Introductory epidemiology  
MPH5040

LECTURER Dr Monira Hussain,  
Dr Yuanyuan Wang

POINTS 6

MODE OF STUDY
Semester 1 – option one: On-campus (DAY) @ two compulsory contact hours per week, or Option two: Off-campus learning and compulsory two block days; Semester 2 – online (DE)

SEMESTER 1 or 2

CAMPUS Alfred

Co-requisite
MPH5041 To be taken concurrently with MPH5040. Together they are prerequisites for clinical epidemiology elective units.

NOTE: Mandatory attendance requirements
This unit is taken concurrently with MPH5041, as together they are prerequisites for clinical epidemiology elective units.

Upon completion of this unit students will be able to measure frequencies of disease i.e. incidence, prevalence, "population at risk"; and measure associations in epidemiological studies; different study designs i.e. observational studies, experimental study designs; bias associated with study designs, misclassification, confounding and effect modification. Students will critically appraise different epidemiological studies, apply diagnostic and screening tests, and examine outbreak investigation.

You're expected to be competent at mathematics to a Year 7 level.

monash.edu/pubs/handbooks/units/MPH5040.html

Introductory biostatistics  
MPH5041

LECTURER Dr Baki Billah

POINTS 6

MODE OF STUDY
Semester 1 – option one: On-campus (DAY) @ four contact hours per week, or Option two: Off-campus learning and compulsory three block days; Semester 2 – online (DE)

SEMESTER 1 or 2

CAMPUS Alfred

Co-requisites
MPH5040, except for those enrolled in courses 3896, 2312 or M4002

NOTE: You don't have provision to borrow SPSS CD from Monash University; you have to lease/buy it from IBM SPSS.

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

monash.edu/pubs/handbooks/units/MPH5041.html

Climate change and public health  
MPH5042

LECTURER Ms Valerie Kay

POINTS 6

MODE OF STUDY Flexible

SEMESTER 2

CAMPUS Alfred

This unit will examine the health impacts of climate change, and the relevance of this to the principles and practices of public health. Informed by an understanding of the fundamental role of climate stability for sustained population health, and of evidence for anthropogenic global warming, the focus of the unit will be on direct and indirect mechanisms through which climate change could impact on health, including extreme weather events, changing patterns of vector-borne disease, water-borne infections, food quality and availability, air quality, and social disruption. There will be an emphasis on evidence for past and predicted health effects, health burden magnitude and distribution, and the complex interplay between population and environmental factors that influence vulnerability. Students will apply this knowledge to critically appraise adaptation and mitigation initiatives from a public health perspective, and will be expected to engage with current climate change issues and communicate their ideas clearly and effectively.

monash.edu/pubs/handbooks/units/MPH5042.html
Regression methods for epidemiology
MPH5200

LECTURER  Professor R Wolfe

POINTS  6

MODE OF STUDY  OCL online and 2 x 2 block days

SEMESTER  1  
CAMPUS  Alfred

Prerequisites
Credit average in units MPH5040 and MPH5041
Confounding and 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, Stata statistical software.
monash.edu/pubs/2016handbooks/units/MPH5200.html

Environmental influences on health
MPH5203

LECTURER  Dr E MacFarlane

POINTS  6

MODE OF STUDY  OCL online and three block days

SEMESTER  2  
CAMPUS  Alfred

Environmental influences on health, including physical, chemical and biological hazards, as well as principles of assessment, management and control of environmental health risks.
monash.edu/pubs/handbooks/units/MPH5203.html

Chronic disease: Epidemiology and prevention
MPH5207

LECTURER  Dr J Oldroyd

POINTS  6

MODE OF STUDY  OCL online and two block days

SEMESTER  1  
CAMPUS  Alfred

Co-requisites MPH5040 and MPH5041
Epidemiology and control of chronic diseases. Overview of important chronic diseases in Australia in 2011, and strategies for their prevention and control. Measurement of disease and burden of disease; concept of risk factors and risk factors for important chronic diseases; the effect of social and economic factors on the epidemiology of chronic diseases; impact of chronic diseases on society and the economy; smoking, nutrition and physical activity as risk factors for important chronic diseases; cardiovascular diseases and their prevention; oral diseases and their prevention; cancers and their prevention; screening as a public health tool; health promotion as a public health tool; use of evidence in public health programs to prevent chronic diseases.
monash.edu/pubs/handbooks/units/MPH5207.html

Research methods
MPH5213

LECTURER  Dr A Wluka

POINTS  6

MODE OF STUDY
Option one: On-campus (DAY) @ two compulsory contact hours per week, or Option two: Off-campus learning and compulsory two block days.
NOTE: These are not interchangeable midway through semester.

SEMESTER  2  
CAMPUS  Alfred

Prerequisites
MPH5040 and MPH5041
This unit provides an introduction to the research methods used in observational studies and is designed to help you develop the practical skills required in the design and assessment of a research project. It covers issues in protocol design, including study type selection, introduction to questionnaire design, sampling methods, and ethics approval. This introduces you to planning data management and statistical analysis, and developing a study budget. An introduction to the role of qualitative research is also covered.
monash.edu/pubs/handbooks/units/MPH5213.html

Infectious diseases: epidemiology and prevention
MPH5218

LECTURER  Dr S McGuinness, Professor K Leder

POINTS  6

MODE OF STUDY  OCL online and two block days

SEMESTER  2  
CAMPUS  Alfred

Prerequisites
MPH5040
Importance of transmission source, host and organism factors in infectious disease epidemiology. Outbreak investigation, surveillance of infectious diseases, prevention/control strategies, mathematical modelling of infectious diseases and of impact of immunity. Includes discussion of infection control, vaccines, exotic and emerging diseases.
monash.edu/pubs/handbooks/units/MPH5218.html

Clinical epidemiology
MPH5202

LECTURER  Professor D Liew

POINTS  6

MODE OF STUDY  OCL online and two block days

SEMESTER  1  
CAMPUS  Alfred

Pre-requisites
MPH5040 and MPH5041
This unit helps you extend, integrate and apply your core knowledge and skills across the broad domain of clinical research. This unit will require you to formulate clinical questions (regarding diagnosis, management, harm and prognosis), and develop strategies to search the scientific literature to answer these questions. The unit will provide opportunities for you to conduct critical appraisals of primary studies, clinical practice guidelines, shared decision-making tools and systematic reviews, and apply the results to clinical research and inform patient care.
monash.edu/pubs/handbooks/units/MPH5202.html

Infectious diseases:
epidemiology and prevention
MPH5218
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Lecturer</th>
<th>Points</th>
<th>Mode of Study</th>
<th>Semester</th>
<th>Campus</th>
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</thead>
<tbody>
<tr>
<td>Assessment and control of workplace hazards</td>
<td>Dr G Benke</td>
<td>6</td>
<td>OCL online and three block days</td>
<td>2</td>
<td>Alfred</td>
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<tr>
<td>Research conduct, analysis, write-up and submission</td>
<td>Dr S Braaf</td>
<td>6</td>
<td>Off-campus learning</td>
<td>2</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**Prerequisites**

MPH5243

How to recognise, evaluate and control hazards in workplaces arising from substances, sound, radiation and microorganisms. Principles and practice of occupational hygiene, including the use of simple instruments, ventilation, personal protective equipment and workplace substances laws. Hygienic standards and their various forms and notations. The difficulties of assessing prior exposures for medico-legal and epidemiological purposes.

monash.edu/pubs/handbooks/units/MPH5222.html

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<tr>
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<tbody>
<tr>
<td>Research design and project proposal</td>
<td>Dr S Braaf</td>
<td>6</td>
<td>Off-campus learning</td>
<td>1 or 2</td>
<td>Alfred</td>
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</table>

**Co-requisite**

MPH5213

**Prerequisites**

Distinction (70-79%) or high distinction (80% or higher) in MPH5040 and distinction (70-79%) or high distinction (80% or higher) in MPH5041.

This is the final unit of two units designed to allow you to complete the conduct and write-up of a research project in the field of population health or clinical research. In this unit, you'll complete the research project described in the research proposal developed in MPH5231. You'll interrogate data using acceptable analytical processes, and write up the research project in a format and style suitable for publication in an academic setting.

monash.edu/pubs/handbooks/units/MPH5231.html

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<tr>
<th>Course Title</th>
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<th>Semester</th>
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<td>Clinical trials</td>
<td>Dr A Owen</td>
<td>6</td>
<td>OCL online and two block days</td>
<td>1 or 2</td>
<td>Alfred</td>
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</table>

**Co-requisite**

MPH5213

**Prerequisites**

MPH5040 and MPH5041

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

monash.edu/pubs/handbooks/units/MPH5236.html

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<th>Course Title</th>
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<td>Clinical measurement</td>
<td>Dr C Hodgson</td>
<td>6</td>
<td>OCL online and two block days</td>
<td>1</td>
<td>Alfred</td>
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</table>

**Prerequisites**

MPH5040 and MPH5041

Aimed at those with clinical experience, this unit presents an overview of clinical outcome measurement in research, with a focus on quantitative measurement. The areas covered include selecting, reducing and scaling items, questionnaire design, assessing reliability and validity, responsiveness of measures to clinically important change, quality of life measures, and statistical concepts in the testing and reporting of clinical measurement tools.

monash.edu/pubs/handbooks/units/MPH5237.html

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<th>Campus</th>
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<tbody>
<tr>
<td>Systematic reviews and meta-analysis</td>
<td>Dr R Johnston</td>
<td>6</td>
<td>OCL online and two block days</td>
<td>2</td>
<td>Alfred</td>
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</table>

**Prerequisites**

MPH5040 and MPH5041

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

monash.edu/pubs/handbooks/units/MPH5239.html
**Introduction to occupational health and safety**

**MPH5241**

- **LECTURER:** Ms C Gilmour
- **POINTS:** 6
- **MODE OF STUDY:** OCL online and three block days
- **SEMESTER:** 1
- **CAMPUS:** Alfred

**NOTE:** Mandatory attendance requirements

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

[monash.edu/pubs/2017handbooks/units/MPH5241.html](monash.edu/pubs/2017handbooks/units/MPH5241.html)

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**Psychosocial work environment**

**MPH5242**

- **LECTURER:** Dr T Keegel
- **POINTS:** 6
- **MODE OF STUDY:** OCL online and three-day block
- **SEMESTER:** 1
- **CAMPUS:** Alfred

**NOTE:** Mandatory attendance requirements

Psychosocial effects of work on individuals is explained from a preventive viewpoint. Mental illness and its effect on employment, alcohol and drug use, disability discrimination, equal employment opportunity legislation, workplace health promotion and shift work are examined.

[monash.edu/pubs/handbooks/units/MPH5242.html](monash.edu/pubs/handbooks/units/MPH5242.html)

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**Chemical and biological hazards**

**MPH5243**

- **LECTURER:** Associate Professor D Glass
- **POINTS:** 6
- **MODE OF STUDY:** OCL online and three-day block
- **SEMESTER:** 1
- **CAMPUS:** Alfred

**NOTE:** Mandatory attendance requirements

Prevention of human disease resulting from workplace exposures to chemical and biological hazards. Covering toxicological principles, health effects of the major groups of chemical substances, as well as biological hazards from blood and bodily secretions, water, food, animals and travelling abroad.

[monash.edu/pubs/handbooks/units/MPH5243.html](monash.edu/pubs/handbooks/units/MPH5243.html)

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**Ergonomic and physical hazards**

**MPH5244**

- **LECTURER:** Dr R Stuckey
- **POINTS:** 6
- **MODE OF STUDY:** OCL online and three-day block
- **SEMESTER:** 2
- **CAMPUS:** Alfred

**Prerequisites**

- MPH5241

**NOTE:** Mandatory attendance requirements

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

[monash.edu/pubs/handbooks/units/MPH5244.html](monash.edu/pubs/handbooks/units/MPH5244.html)

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**Health and human rights**

**MPH5255**

- **LECTURER:** Associate Professor B Loff
- **POINTS:** 6
- **MODE OF STUDY:** OCL online and four block days
- **SEMESTER:** 1
- **CAMPUS:** Alfred

This unit examines the interrelationship between public health and human rights. It begins by providing an overview of the development, content and application of human rights. Human rights aspects of contemporary local and international health concerns are then considered.

[monash.edu/pubs/handbooks/units/MPH5255.html](monash.edu/pubs/handbooks/units/MPH5255.html)

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**Injury epidemiology and prevention**

**MPH5256**

- **LECTURER:** Professor B Gabbe
- **POINTS:** 6
- **MODE OF STUDY:** On-campus five-intensive-day block
- **SEMESTER:** T3-57
- **CAMPUS:** Alfred

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

[monash.edu/pubs/handbooks/units/MPH5256.html](monash.edu/pubs/handbooks/units/MPH5256.html)
**Law for health systems**

**MPH5265**

- **LECTURER**: Ms N Mollard
- **POINTS**: 6
- **MODE OF STUDY**: OCL online and two block days
- **SEMESTER**: 2
- **CAMPUS**: Alfred

Review of legal management principles related to 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.

[monash.edu/pubs/handbooks/units/MPH5265.html](http://monash.edu/pubs/handbooks/units/MPH5265.html)

**Clinical leadership and management**

**MPH5266**

- **LECTURER**: Dr P Bradford
- **POINTS**: 6
- **MODE OF STUDY**: OCL online and two block days
- **SEMESTER**: 1 or 2
- **CAMPUS**: Alfred

Reviews key management, organisation theory & its application to healthcare 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.

[monash.edu/pubs/handbooks/units/MPH5266.html](http://monash.edu/pubs/handbooks/units/MPH5266.html)

**Principles of health care quality improvement**

**MPH5267**

- **LECTURER**: Associate Professor S Evans
- **POINTS**: 6
- **MODE OF STUDY**: OCL online and two block days
- **SEMESTER**: 2
- **CAMPUS**: Alfred

In this unit you’ll will learn how historical, political and social factors impact on quality measurement in health care; the relationship of industrial and health care quality monitoring; epidemiological and statistical quality measurement principles; the strengths and limitations of current monitoring techniques; different sources of health care quality data; principles of clinical indicator programs; adverse event monitoring; satisfaction surveys and benchmarking; and the relationship between evidence-based medicine, clinical practice guidelines and quality improvement.

Students will appreciate the complexities in designing, implementing and evaluating quality improvement programs in the clinical setting.

[monash.edu/pubs/handbooks/units/MPH5267.html](http://monash.edu/pubs/handbooks/units/MPH5267.html)

**Financial issues in health care management**

**MPH5268**

- **LECTURER**: Ms K Makarounas-Kirchmann, Mr R Cornick
- **POINTS**: 6
- **MODE OF STUDY**: OCL online and two block days
- **SEMESTER**: 1
- **CAMPUS**: Alfred

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

[monash.edu/pubs/handbooks/units/MPH5268.html](http://monash.edu/pubs/handbooks/units/MPH5268.html)

**Foundation of health policy**

**MPH5269**

- **LECTURER**: Ms M Drieberg
- **POINTS**: 6
- **MODE OF STUDY**: OCL online and two block days
- **SEMESTER**: 1
- **CAMPUS**: Alfred

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

[monash.edu/pubs/handbooks/units/MPH5269.html](http://monash.edu/pubs/handbooks/units/MPH5269.html)
Advanced statistical methods for clinical research

**MPH5270**

**LECTURER** Associate Professor A Earnest

**POINTS** 6

**MODE OF STUDY**
OCL online and three block days

**SEMESTER** 2

**CAMPUS** Alfred

**Prerequisites**
Credit grades in MPH5040 and MPH5041; familiarity with Stata statistical software; MPH5200 is recommended.

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 Kaplan-Meier graphs and Cox proportional hazards regression models. Combination of lectures and data analysis sessions on laptop computers using Stata statistical software.

[monash.edu/pubs/handbooks/units/MPH5270.html](http://monash.edu/pubs/handbooks/units/MPH5270.html)

Reform and development of health services

**MPH5272**

**LECTURER** Dr H Rowe

**POINTS** 6

**MODE OF STUDY**
OCL online and two block days

**SEMESTER** 2

**CAMPUS** Alfred

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.

[monash.edu/pubs/handbooks/units/MPH5272.html](http://monash.edu/pubs/handbooks/units/MPH5272.html)

HSM case study

**MPH5273**

**LECTURER**
Associate Professor D Hillis,
Associate Professor S Ahern,
Professor F Cicuttini

**POINTS** 12

**MODE OF STUDY** Off-campus

**SEMESTER** 1 and 2

**CAMPUS** Alfred

The unit is designed to consolidate the theoretical and practical skills acquired in the Master of Health Services Management or the Master of Public Health by exploring in detail a complex problem within the workplace or within a health care setting. Alternatively, subject to the approval of the course coordinator, you may seek a limited placement in a health service to explore a particular issue for your case-study. The case study is not intended to be original research. In some instances, it might be suitable for submission as the case study for the Royal Australasian College of Medical Administrators (RACMA) Fellowship.

[monash.edu/pubs/handbooks/units/MPH5273.html](http://monash.edu/pubs/handbooks/units/MPH5273.html)

Safety management systems

**MPH5276**

**LECTURER** Ms C Gilmour

**POINTS** 6

**MODE OF STUDY**
OCL online and three-day block

**SEMESTER** 2

**CAMPUS** Alfred

**Prerequisites**
MPH5241

Concepts and practice of occupational health and safety management systems within work environments, including the conduct of an audit are examined. Includes accident/incident causation theories and models, investigative techniques, reporting and statistics, safety systems, fire prevention and control. Incident causation and accident types, including slips, trips and falls are also examined.

[monash.edu/pubs/handbooks/units/MPH5276.html](http://monash.edu/pubs/handbooks/units/MPH5276.html)

Practical data management

**MPH5277**

**LECTURER** Dr J Lockery

**POINTS** 6

**MODE OF STUDY**
OCL online and two-day block

**SEMESTER** 2

**CAMPUS** Alfred

**Co-requisites**
MPH5040

This unit is designed to develop the skills required to manage data in a dynamic, changing environment and produce data sets for analysis. You’ll be guided through data management from project inception to data set completion. Practical skills will be developed through the completion of weekly data management tasks for a hypothetical study.

[monash.edu/pubs/handbooks/units/MPH5277.html](http://monash.edu/pubs/handbooks/units/MPH5277.html)
### Ethics, good research practice and practical research methods
**MPH5283**

- **LECTURER**: Dr L Bishop
- **POINTS**: 6
- **MODE OF STUDY**: OCL and one block day
- **SEMESTER**: 2
- **CAMPUS**: Alfred

**Co-requisites**
**MPH5213**

This unit will give you the practical knowledge required to plan and undertake a clinical research project with close attention to the highest standards of ethics and good research practice. You'll also gain detailed knowledge in planning, and organising your knowledge using methods of clinical research in a written and oral format.

[monash.edu/pubs/handbooks/units/MPH5283.html](monash.edu/pubs/handbooks/units/MPH5283.html)

### Introduction and challenges in public health
**MPH5288**

- **LECTURER**: Dr H Kelsall
- **POINTS**: 6
- **MODE OF STUDY**: OCL and two block days
- **SEMESTER**: 2
- **CAMPUS**: Alfred

**This unit will examine foundation aspects of public health with a focus on contemporary challenges in public health. You'll apply this knowledge to critically appraise initiatives to address complex health issues from a public health perspective, and will be expected to engage with current public health issues and communicate their ideas clearly and effectively.**

[monash.edu/pubs/handbooks/units/MPH5288.html](monash.edu/pubs/handbooks/units/MPH5288.html)

### Human factors for patient safety
**POM5005**

- **LECTURER**: Dr S Marshall, R Schnitker
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: 1
- **CAMPUS**: Alfred

**This unit provides an introduction to the science of Human Factors (Ergonomics) and how it applies to the health system and patient care. It introduces key concepts of safety science and how human factors affect organisations and systems at a large scale (also termed Macroergonomics). This unit is only available to students with a clinical background.**

[monash.edu/pubs/2018handbooks/units/POM5005.html](monash.edu/pubs/2018handbooks/units/POM5005.html)

### Professional practice development
**MPH5289**

- **LECTURER**: Dr D Ayton, R Morello
- **POINTS**: 6
- **MODE OF STUDY**: OCL and two block days
- **SEMESTER**: 2
- **CAMPUS**: Alfred

**This enables you to enhance and develop your skills in public health in the area of communication of information and project management. This unit builds on the knowledge developed through the MPH and will focus on development of skills needed to manage a career in public health. It will focus on communication to stakeholders and project management specific to public health. Both these areas have been identified by employers as important workplace skills. The unit will equip you with the knowledge, skills and attributes required to effectively manage projects and effectively communicate with stakeholders using different media. You'll also develop the capacity to develop a professional development plan to support lifelong learning.**

[monash.edu/pubs/2018handbooks/units/MPH5289.html](monash.edu/pubs/2018handbooks/units/MPH5289.html)
### Health systems and policy

**MPH5301**

- **LECTURER**: Ms M Drieberg
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: TP4, 2018
- **CAMPUS**: Alfred

The aim of this unit is to provide health service managers and public health practitioners with a comprehensive understanding of the major components of national health systems and how health policy is created to adapt and reform these systems.

[monash.edu/pubs/handbooks/units/MPH5301.html](monash.edu/pubs/handbooks/units/MPH5301.html)

### Biostatistics: concepts and applications

**MPH5302**

- **LECTURER**: Dr B Billah
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: TP5, 2018
- **CAMPUS**: Alfred

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

[monash.edu/pubs/handbooks/units/MPH5302.html](monash.edu/pubs/handbooks/units/MPH5302.html)

### Epidemiology of infectious diseases

**MPH5303**

- **LECTURER**: Dr S McGuinness
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: TP6, 2018
- **CAMPUS**: Alfred

This unit is an introduction to infectious disease epidemiology. Topics include the dynamic nature of infections, the principles of infectious diseases, identification and management of outbreaks, and principles of surveillance. The importance of understanding host, environmental, pathogen and transmission factors will be highlighted. Practical examples will be given to highlight major concepts. Online activities, suggested readings and discussion forums aim to enhance your understanding of the teaching material.

[monash.edu/pubs/handbooks/units/MPH5303.html](monash.edu/pubs/handbooks/units/MPH5303.html)

### Leading and managing in public health and health care

**MPH5304**

- **LECTURER**: Dr P Bradford
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: TP1, 2019
- **CAMPUS**: Alfred

The aim of this unit is to provide health service managers and public health practitioners with the knowledge and skills to manage health care organisational units. Over six weekly modules you’ll explore key management theories, leadership skills, managing health professionals, designing and coordinating health professional work processes, managing change and projects. Each module includes an overview of the relevant concepts and resources, guided readings and online, instructor-moderated discussions of applied issues with student peers.

[monash.edu/pubs/handbooks/units/MPH5304.html](monash.edu/pubs/handbooks/units/MPH5304.html)
This unit is an introduction to key concepts and applications in epidemiology. Key concepts of epidemiology will be delivered throughout the unit, including rates, sources of data, descriptive and analytical epidemiology, epidemiological study designs, critical appraisal of literature, screening, prevention, exposure assessment, outbreak investigation, confounding and bias.

Students are expected to be competent at mathematics to a Year 7 level.

monash.edu/pubs/handbooks/units/MPH5305.html

Evaluation in public health MPH5306

This provides an introduction to quantitative and qualitative research methods used in public health, and the evaluation of disease prevention and health promotion strategies. Levels of evaluation will be examined, with the range of qualitative and quantitative methods suitable for answering different evaluation questions explored. An emphasis will be placed on the evaluation challenges posed by the complexities of public health action and the contexts in which it is carried out, with case studies used to foster an understanding of these issues.

monash.edu/pubs/handbooks/units/MPH5306.html

Occupational health and safety MPH5309

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

monash.edu/pubs/handbooks/units/MPH5309.html

Introduction to environmental health MPH5310

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

monash.edu/pubs/handbooks/units/MPH5310.html
<table>
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<tr>
<th>Course</th>
<th>Description</th>
<th>Lecturer</th>
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<th>Semester</th>
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<tbody>
<tr>
<td>MPH5311</td>
<td>Safety and quality in health care</td>
<td>Dr T Robinson</td>
<td>6</td>
<td>Online</td>
<td>TP4, 2019</td>
<td>Alfred</td>
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<tr>
<td>MPH5312</td>
<td>Advances in managing patient care processes</td>
<td>Professor J Ibrahim</td>
<td>6</td>
<td>Online</td>
<td>TP2, 2018</td>
<td>Alfred</td>
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<tr>
<td>MPH5313</td>
<td>Challenges in public health</td>
<td>Dr H Kelsall</td>
<td>6</td>
<td>Online</td>
<td>T6, 2019</td>
<td>Alfred</td>
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<tr>
<td>MPH5314</td>
<td>Epidemiology of chronic disease</td>
<td>Dr J Oldroyd</td>
<td>6</td>
<td>Online</td>
<td>TP3, 2018</td>
<td>Alfred</td>
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<tr>
<td>MPH5315</td>
<td>Introduction to management</td>
<td>Professor I Rousse</td>
<td>6</td>
<td>Online</td>
<td>TP3, 2018</td>
<td>Alfred</td>
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<tr>
<td>MGF5963</td>
<td>Marketing for healthcare managers</td>
<td>TBC</td>
<td>6</td>
<td>Online</td>
<td>TP6, 2018</td>
<td>Alfred</td>
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This unit will explore the historical, political and social factors impacting on quality measurement in health care. It will examine the relationship of industrial and health care quality monitoring, through use of epidemiological and statistical quality measurement principles. Strengths and limitations of current monitoring techniques and different sources of health care quality data will be examined. During the unit, the principles of clinical indicator programs, adverse event monitoring, satisfaction surveys and benchmarking will be utilised, including the design, implementation and evaluation of quality improvement programs in clinical settings.

monash.edu/pubs/handbooks/units/MPH5311.html

This unit will examine foundation aspects of public health with a focus on contemporary challenges. You’ll apply this knowledge to critically appraise initiatives to address complex health issues from a public health perspective, and will be expected to engage with current public health issues and communicate your ideas clearly and effectively.

monash.edu/pubs/handbooks/units/MPH5313.html

This provides an introduction to epidemiology and control of chronic diseases. Included in this unit is an overview of important chronic diseases currently impacting Australia, and strategies for their prevention and control. Measurement of disease and burden of disease, concept of risk factors and risk factors for important chronic diseases will be examined. Additionally, you’ll examine the effect of social and economic factors on the epidemiology of chronic diseases, and the impact of chronic diseases on society and the economy. The impact of screening and health promotion as public health tools will be discussed, along with use of evidence in public health programs to prevent chronic diseases.

monash.edu/pubs/2017handbooks/units/MPH5314.html

The overall aim of this unit is to introduce pre-experience students to the range of activities associated with the management of individuals, groups and the organisation. In order to achieve this aim the content will cover several key areas of management. For example, the current challenges facing managers in a turbulent environment, the role of the individual, the importance of teamwork, managing conflict and effective decision-making. Finally, the role of corporate culture and ethics. Those undertaking this unit should expect to experience a variety of activities in order to challenge the content as prescribed above. These activities will include interactive case studies and application of the theory to real-world examples through group presentations.

monash.edu/pubs/handbooks/units/MGF5963.html

This unit will examine marketing activities undertaken by organisations with a special emphasis on the health care industry. It provides an introduction of marketing concepts and techniques covering aspects such as value exchange, development of corporate and marketing strategic plans, product and service development, the use of marketing decision-making tools, and fundamentals of consumer behaviour.

monash.edu/pubs/handbooks/units/MKF5505.html
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health economics</td>
<td>This unit provides an understanding of the microeconomic approach to resource allocation, both in general and specifically, in relation to the health sector. It introduces you to the use of economic tools in the analysis of the ‘market’ for health care, in terms of efficiency and equity. It also provides an analytical framework for assessment of the Australian health care system, and health policy generally, from an economic perspective. <a href="monash.edu/pubs/handbooks/units/ECC5979.html">monash.edu/pubs/handbooks/units/ECC5979.html</a></td>
</tr>
<tr>
<td>Accounting for healthcare managers</td>
<td>This unit introduces basic accounting principles for non-accountants. The information requirements of two main groups are examined – external users such as owners or investors, and internal users such as managers. The structure, meaning, analysis and interpretation of financial statements are explored, together with key measures of assessing financial performance. Financial issues confronting health care managers, such as budgeting, cost management and performance measurement are also introduced. <a href="monash.edu/pubs/handbooks/units/ACF5268.html">monash.edu/pubs/handbooks/units/ACF5268.html</a></td>
</tr>
</tbody>
</table>
## Semesters 1
### 26 February – 25 May

<table>
<thead>
<tr>
<th>Unit/Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5002 Foundations of Health Promotion and Program Planning</td>
<td>TBC</td>
<td>OCL + 2 day block</td>
<td>9 March + 27 Apr</td>
</tr>
<tr>
<td>MPH5020 Introduction to Epidemiology &amp; Biostatistics</td>
<td>Miranda Davies</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5040/6040-Day Introductory Epidemiology (lecture)</td>
<td>Monira Hussain / Yuanyuan Wang</td>
<td>Weekly - LEC</td>
<td>Thurs 9-10am</td>
</tr>
<tr>
<td>MPH5040/6040-Day Introductory Epidemiology (tutorial)</td>
<td>Monira Hussain / Yuanyuan Wang</td>
<td>Weekly - TUTE</td>
<td>Thurs 10-11am</td>
</tr>
<tr>
<td>MPH5041/6041-Day Introductory Biostatistics (lecture)</td>
<td>Baki Billah</td>
<td>Weekly - LEC</td>
<td>Thurs 11.30am-1.30pm</td>
</tr>
<tr>
<td>MPH5041/6041-Day Introductory Biostatistics (tutorial)</td>
<td>Baki Billah</td>
<td>Weekly - TUTE</td>
<td>Thurs 2.00 - 4.00pm</td>
</tr>
<tr>
<td>MPH5040/6040-Day Introductory Epidemiology (DE - Block days)</td>
<td>Monira Hussain</td>
<td>OCL + 2 block days - DE</td>
<td>5 March + 11 Apr</td>
</tr>
<tr>
<td>MPH5041/6041-Day Introductory Biostatistics (DE - Block days)</td>
<td>Baki Billah</td>
<td>OCL + 3 block days - DE</td>
<td>27 Feb + 9-10 Apr</td>
</tr>
<tr>
<td>MPH5020/6020 Regression Methods for Epidemiology</td>
<td>Rory Wolfe</td>
<td>OCL + 2 x 2 day block</td>
<td>15-16 Mar 10-11 May</td>
</tr>
<tr>
<td>MPH5021 Clinical Epidemiology</td>
<td>Danny Liew</td>
<td>OCL + 2 day block</td>
<td>2 Mar + 25 May</td>
</tr>
<tr>
<td>MPH5027 Chronic Diseases: Epidemiology &amp; Prevention</td>
<td>John Oldroyd</td>
<td>OCL + 2 day block</td>
<td>6 - 7 March</td>
</tr>
<tr>
<td>MPH5237 Clinical Measurement</td>
<td>Carol Hodgson</td>
<td>OCL + 2 day block</td>
<td>14 - 15 March</td>
</tr>
<tr>
<td>MPH5241 Introduction to Occupational Health &amp; Safety</td>
<td>Colleen Gilmour</td>
<td>OCL + 3 day block</td>
<td>2 - 4 May</td>
</tr>
<tr>
<td>MPH5242 Psychosocial Work Environment</td>
<td>Tessa Keegel</td>
<td>OCL + 3 day block</td>
<td>9 - 11 May</td>
</tr>
<tr>
<td>MPH5243 Chemical &amp; Biological Hazards</td>
<td>Deborah Glass</td>
<td>OCL + 3 day block</td>
<td>19 - 21 March</td>
</tr>
<tr>
<td>MPH5255 Health &amp; Human Rights</td>
<td>Bebe Loff</td>
<td>OCL + 4 block days</td>
<td>9-12 April</td>
</tr>
<tr>
<td>MPH5266 Clinical Leadership &amp; Mgmt</td>
<td>Peter Bradford</td>
<td>OCL + 2 block days</td>
<td>26 Feb + 16 Apr</td>
</tr>
<tr>
<td>MPH5268 Financial Issues in Health Care Management</td>
<td>Kelly Makaroukas-Kirchmann / R Cornick</td>
<td>OCL + 2 block days</td>
<td>27 Feb + 17 Apr</td>
</tr>
<tr>
<td>MPH5269 Foundations of Health Policy</td>
<td>Micaela Drieberg</td>
<td>OCL + 2 block days</td>
<td>28 Feb + 18 Apr</td>
</tr>
<tr>
<td>MPH5273 Case Study**</td>
<td>David Hills / Lynne Denby</td>
<td>OCL + 1 block day</td>
<td>20-Mar</td>
</tr>
</tbody>
</table>

### Other Units

<table>
<thead>
<tr>
<th>Unit/Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPM5001 Health Indicators &amp; Health Surveys</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5002 Mathematical Background for Biostatistics</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5003 Principles of Statistical Inference</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5004 Linear Models</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5005 Data Management &amp; Statistical Computing</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5006 Clinical Biostatistics</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5008 Longitudinal &amp; Correlated Data Analysis</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5010 Survival Analysis</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5011 Biostatistical Practical Project (double unit)**</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5014 Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5015 Biostatistical Practical Project (single unit)</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>HECS970 Introduction to Health Economics</td>
<td>Anurag Sharma</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>HECS975 Principles of Health Economics for Developing Countries</td>
<td>Duncan Mortimer</td>
<td>one week block</td>
<td>See Monash Timetables</td>
</tr>
<tr>
<td>MAP4200 Improving Indigenous Equity in Professional Practice</td>
<td>Karen Adams</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>POM5005 Human Factors for Patient Safety</td>
<td>Central Clinical School</td>
<td>OCL</td>
<td>Contact: <a href="mailto:med-periopmedicine@monash.edu">med-periopmedicine@monash.edu</a></td>
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</tbody>
</table>
### Semester 2
23 July – 19 October

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5020</td>
<td>Introduction to Epidemiology &amp; Biostatistics</td>
<td>Miranda Davies</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5022</td>
<td>Evaluating Public Health Programs</td>
<td>TBC</td>
<td>OCL + 2 block days</td>
<td>03 Aug + 07 Sept</td>
</tr>
<tr>
<td>MPH5040/</td>
<td>Introductory Epidemiology (DE)</td>
<td>Monira Hussain / Yuanyuan Wang</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5041/</td>
<td>Introductory Biostatistics (DE)</td>
<td>Bakir Billah</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5042</td>
<td>Climate Change and Public Health</td>
<td>Valerie Kay</td>
<td>OCL + 2 block days</td>
<td>1 Aug + 3 Oct</td>
</tr>
<tr>
<td>MPH5020</td>
<td>Environmental Influences on Health</td>
<td>Ewan MacFarlane</td>
<td>OCL + 3 block days</td>
<td>3 - 5 Sept</td>
</tr>
<tr>
<td>MPH5213</td>
<td>Research Methods (D/Y)</td>
<td>Anita Wuaka</td>
<td>Option 1: Weekly - DAY</td>
<td>Thurs 9 – 11am</td>
</tr>
<tr>
<td>MPH5213 - DE</td>
<td>Research Methods (DE)</td>
<td>Anita Wuaka</td>
<td>Option 2: OCL + 2 day block - DE</td>
<td>31 July – 1 Aug</td>
</tr>
<tr>
<td>MPH5218</td>
<td>Infectious Diseases: Epidemiology &amp; Prevention</td>
<td>Sarah McGuinness / Karin Leder</td>
<td>OCL + 3 block days</td>
<td>25 July, 29 Aug, 17 Oct</td>
</tr>
<tr>
<td>MPH5222</td>
<td>Assessment &amp; Control of Workplace Hazards</td>
<td>Gaia Berke</td>
<td>OCL + 3 day block</td>
<td>10 - 12 Sept</td>
</tr>
<tr>
<td>MPH5238</td>
<td>Clinical Trials</td>
<td>Alice Owen</td>
<td>OCL + 2 day block</td>
<td>20 - 21 August</td>
</tr>
<tr>
<td>MPH5239/</td>
<td>Systematic Reviews &amp; Meta Analysis</td>
<td>Renea Johnston</td>
<td>OCL + 2 block days</td>
<td>30 July + 8 Oct</td>
</tr>
<tr>
<td>MPH5244</td>
<td>Ergonomic &amp; Physical Hazards</td>
<td>Ruth Stuckey</td>
<td>OCL + 3 day block</td>
<td>22 - 24 August</td>
</tr>
<tr>
<td>MPH5256</td>
<td>Injury Epidemiology &amp; Prevention</td>
<td>Belinda Gabbe</td>
<td>5 day block</td>
<td>11 - 13 July, 16 - 17 July</td>
</tr>
<tr>
<td>MPH5265</td>
<td>Law for Health Systems</td>
<td>Nicki Mollard</td>
<td>OCL + 2 block days</td>
<td>23 July + 14 Sept</td>
</tr>
<tr>
<td>MPH5266</td>
<td>Clinical Leadership &amp; Mgmt</td>
<td>Peter Bradford</td>
<td>OCL + 2 block days</td>
<td>30 July + 10 Sept</td>
</tr>
<tr>
<td>MPH5267</td>
<td>Principles of H/Care Quality Improvement</td>
<td>Sue Evans</td>
<td>OCL + 2 block days</td>
<td>24 July + 11 Sept</td>
</tr>
<tr>
<td>MPH5270/</td>
<td>Advanced Statistical Methods for Clinical Research</td>
<td>Arul Earnest</td>
<td>OCL + 3 block days</td>
<td>15 Aug + 9 -10 Oct</td>
</tr>
<tr>
<td>MPH5272</td>
<td>Reform &amp; Development of Health Services</td>
<td>Heather Rowe</td>
<td>OCL + 2 block days</td>
<td>25 July + 19 Sept</td>
</tr>
<tr>
<td>MPH5273</td>
<td>Case Study</td>
<td>David Hills / Lynne Denby</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5276</td>
<td>Safety Management Systems</td>
<td>Colleen Gilmour</td>
<td>OCL + 3 day block</td>
<td>3 - 5 October</td>
</tr>
<tr>
<td>MPH5277</td>
<td>Practical Data Management</td>
<td>Jessica Lockery</td>
<td>OCL + 2 day block</td>
<td>31 Aug &amp; 5 October</td>
</tr>
<tr>
<td>MPH5283</td>
<td>Ethics, Good Research Practice &amp; Practical Research Skills</td>
<td>Liz Bishop</td>
<td>OCL + 1 day block</td>
<td>7-Aug</td>
</tr>
<tr>
<td>MPH5286</td>
<td>Applying &amp; Practicing the Principles of PS &amp; QI</td>
<td>Joseph Ibrahim</td>
<td>OCL + 2 block days</td>
<td>26 July + 13 September</td>
</tr>
<tr>
<td>MPH5288</td>
<td>Introduction and Challenges in Public Health</td>
<td>Helen Kelkull</td>
<td>OCL + block days</td>
<td>20 - 21 August</td>
</tr>
<tr>
<td>MPH5289</td>
<td>Professional Practice Development</td>
<td>Darshini Aiyon / Renata Morelli</td>
<td>OCL + 2 block days</td>
<td>30 – 31 August</td>
</tr>
</tbody>
</table>

**Other Units**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPMS002</td>
<td>Mathematical Background for Biostatistics</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS003</td>
<td>Principles of Statistical Inference</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS004</td>
<td>Linear Models</td>
<td>Stephanie Hertler</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS005</td>
<td>Data Management &amp; Statistical Computing</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS007</td>
<td>Design of Randomised Controlled Trials</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS009</td>
<td>Categorical Data &amp; Generalised Linear Models</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS011</td>
<td>Biostatistical Practical Project (double unit)**</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS013</td>
<td>Bayesian Statistical Methods</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS014</td>
<td>Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS015</td>
<td>Biostatistical Practical Project (single unit)</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPMS023</td>
<td>Foundations of International Health</td>
<td>Bebe Loft</td>
<td>OCL + 4 block days</td>
<td>6, 7, 8 &amp; 10 Aug</td>
</tr>
<tr>
<td>HECS973</td>
<td>Economics Evaluation in Health Care</td>
<td>Duncan Mortimer</td>
<td>OCL</td>
<td>NA</td>
</tr>
</tbody>
</table>

**KEY**

OCL  Off-campus learning mode of study (distance education) ** full year unit  * Subject to approval
† Attached OR Contact Burnet Institute (9282 2163) two months prior for dates or check med.monash.edu/epidemiology/pgrad

**LOCATION VENUE KEY**

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

Note: Some block teaching periods fall outside the standard semester dates.  Note: Quotas exist for international health units so timely enrolment is encouraged.
Application information

Semester dates 2018

Semester 1
26 Feb – 25 May
Vacation: 30 March – 6 April

Semester 2
23 July – 19 October
Vacation: 24 – 28 September
NOTE: Teaching period and census dates – monash.edu/enrolments/dates/census.html

Application procedures

Domestic applicants
2019 Domestic applications closing dates:
26 January 2018: Applicants are strongly encouraged to submit completed applications in November/December of the current year to ensure timely enrolment.
20 June 2018: Mid-year entry
All our graduate courses are available to domestic applicants.
Domestic applicants apply online via monash.edu/admissions/apply/online.html

International applicants
Our graduate full-time courses are available to international students. For full application details refer to the international website: monash.edu/study/international/postgraduate
For international application enquiries please contact:
International Recruitment Services
Monash Connect, Campus Centre
21 Chancellors Walk
Monash University, Clayton 3800
T: +61 3 9903 4788 (select option 2)
E: scenquiries@monash.edu

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 Graduate Course Guide or monash.edu/study/international/postgraduate

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

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

Application CHECKLIST

☐ Evidence of Australian citizenship or Australian permanent residency
☐ Certified copies of official academic transcripts
☐ Evidence of English language proficiency (if not established by tertiary transcripts)
☐ A curriculum vitae
☐ A statement of purpose i.e. reasons for undertaking the course
☐ An application for credit (if relevant)

For course enquiries please contact:
Graduate Office
School of Public Health and Preventive Medicine
Monash University
T: 9903 0563
E: pgradenq@monash.edu

Credit/advanced standing

Advanced standing and credit transfer may be granted for units where the student supplies documentary evidence of successfully completing a similar unit at a similar level elsewhere, within the past 10 years.

Application for credit/advanced standing forms are available from: med.monash.edu/epidemiology/pgrad

Completed forms must be accompanied with full documentation, including unit/course outlines and content descriptions, academic transcripts etc. Applications can be uploaded at the same time as submitting a course application online.

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

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

Fee-paying courses

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

Higher Education Loan Programs (HELP)

The FEE-HELP scheme provides an interest-free, income-contingent loan facility for students. Australian citizens and holders of a permanent humanitarian visa are eligible for the FEE-HELP scheme. Eligible students wishing to fund part or all of their tuition fees through FEE-HELP must complete the loan request form by the relevant census date and provide a tax file number. A student can elect to pay a portion of fees directly to the University and the remaining debt will be registered as a loan through the Australian Taxation Office (ATO). You’ll commence repaying any HELP loan through the ATO once your 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: [monash.edu/enrolments/loans/domestic-full-fee.html](http://monash.edu/enrolments/loans/domestic-full-fee.html)

For more information, contact Monash Connect: [monash.edu/connect](http://monash.edu/connect)

Monash Fees Unit

For all your fee queries please contact Monash Connect on:

T: 1800 MONASH (1800 666 274)
from overseas +61 3 9902 6011

E: fees.unit@monash.edu

monash.edu/fees

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

Course fees for 2018

Domestic students

Fee-paying courses approximately $26,000 per full-time year (eight units)

For details see: [monash.edu/fees/domestic-full-fee.html](http://monash.edu/fees/domestic-full-fee.html)

FEE-HELP available: [monash.edu/enrolments/loans/domestic-full-fee.html](http://monash.edu/enrolments/loans/domestic-full-fee.html)

Single unit and cross-institutional enrolment approximately $3200.

International students

Fee-paying courses approximately A$36,000 per full-time year (eight units)

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

Further information

Graduate Office
School of Public Health and Preventive Medicine
Monash University

T: 9903 0563
E: pgradenq@monash.edu

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

Teaching locations 2018

Department of Epidemiology and Preventive Medicine

School of Public Health and Preventive Medicine
553 St Kilda Road,
Melbourne 3004

Graduate Office
T: 9903 0563
E: pgradenq@monash.edu

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

Map: [med.monash.edu/epidemiology/about/contacts.html](http://med.monash.edu/epidemiology/about/contacts.html)

Melway map reference: 2L B9 / 58 B5

Alfred Medical Research Education Precinct (AMREP)

Ground floor (next to Ian Potter Library)
Alfred Hospital, Commercial Road
Melbourne


Graduate Office
School of Public Health and Preventive Medicine
Monash University

T: 9903 0563
E: pgradenq@monash.edu

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