2019 Graduate courses
Public Health and Preventive Medicine
“With our absolute commitment to teaching excellence, we offer a flexible, dynamic and global education.”

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 within the Alfred Research Alliance (formerly 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 2018 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

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Public Health (multi-modal)</td>
<td>4 - 11</td>
</tr>
<tr>
<td>Master of Public Health (online)</td>
<td>12</td>
</tr>
</tbody>
</table>

## Biostatistics

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Biostatistics</td>
<td>13</td>
</tr>
<tr>
<td>Graduate Diploma of Biostatistics</td>
<td>13</td>
</tr>
</tbody>
</table>

## Clinical Research

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Clinical Research</td>
<td>15 / 16</td>
</tr>
</tbody>
</table>

## Health Management

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Health Management (multi-modal)</td>
<td>17 - 19</td>
</tr>
<tr>
<td>Graduate Certificate in Health Management</td>
<td>17 - 19</td>
</tr>
<tr>
<td>Graduate Diploma in Health Management</td>
<td>17 - 19</td>
</tr>
<tr>
<td>Master of Health Administration (online)</td>
<td>20</td>
</tr>
</tbody>
</table>

## Occupational and Environmental Health

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Occupational and Environmental Health</td>
<td>21 - 23</td>
</tr>
<tr>
<td>Graduate Diploma of Occupational and Environmental Health</td>
<td>22 - 23</td>
</tr>
</tbody>
</table>

## Unit Information

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units 2019</td>
<td>24 - 39</td>
</tr>
<tr>
<td>Timetable 2019</td>
<td>40 / 41</td>
</tr>
</tbody>
</table>

## Application Information

<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Dates 2019</td>
<td>42</td>
</tr>
<tr>
<td>Entry requirements</td>
<td>42</td>
</tr>
<tr>
<td>Application procedures</td>
<td>42</td>
</tr>
<tr>
<td>Credit / advanced standing</td>
<td>42</td>
</tr>
<tr>
<td>Course fees 2019</td>
<td>43</td>
</tr>
<tr>
<td>Teaching locations 2019</td>
<td>43</td>
</tr>
<tr>
<td>Further information</td>
<td>43</td>
</tr>
</tbody>
</table>
# Graduate courses 2019

<table>
<thead>
<tr>
<th>Course code</th>
<th>CRICOS code</th>
<th># Units req.</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PUBLIC HEALTH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Public Health (multi-modal)</td>
<td>M6024</td>
<td>094880G</td>
<td>16</td>
</tr>
<tr>
<td>Master of Public Health (online)</td>
<td>M6021</td>
<td>N/A</td>
<td>12</td>
</tr>
<tr>
<td><strong>BIOSTATISTICS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Biostatistics</td>
<td>M6025</td>
<td>N/A</td>
<td>12</td>
</tr>
<tr>
<td>Graduate Diploma of Biostatistics</td>
<td>M5017</td>
<td>N/A</td>
<td>8</td>
</tr>
<tr>
<td><strong>CLINICAL RESEARCH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Clinical Research</td>
<td>M6028</td>
<td>097253K</td>
<td>12</td>
</tr>
<tr>
<td><strong>HEALTH MANAGEMENT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Health Management (multi-modal)</td>
<td>M6008</td>
<td>098599J</td>
<td>12</td>
</tr>
<tr>
<td>Graduate Diploma in Health Management</td>
<td>M5007</td>
<td>098599K</td>
<td>8</td>
</tr>
<tr>
<td>Graduate Certificate in Health Management</td>
<td>M4006</td>
<td>N/A</td>
<td>4</td>
</tr>
<tr>
<td>Master of Health Administration (online)</td>
<td>M6007</td>
<td>N/A</td>
<td>12</td>
</tr>
<tr>
<td><strong>OCCUPATIONAL AND ENVIRONMENTAL HEALTH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Occupational and Environmental Health</td>
<td>M6026</td>
<td>028957E</td>
<td>12</td>
</tr>
<tr>
<td>Graduate Diploma of Occupational and Environmental Health</td>
<td>M5018</td>
<td>NA</td>
<td>8</td>
</tr>
</tbody>
</table>
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 units:
  MPH5214 Demographic Methods
  MPH5252 Global Health Care Delivery: Principles and Challenges
- 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 those with other responsibilities.
Entry requirements

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

Entry level 2: 72 credit points to complete
An Australian undergraduate degree (or equivalent) in a public health or health-related discipline with a research honours, or a medical degree

OR
Bachelor of Public Health Science degree or Bachelor of Public Health (eg, course code M2012) degree or a Monash University Bachelor of Biomedical Science degree with a Public Health major*, with a WAM of at least 60% or equivalent GPA

* For a Public Health major students complete: one of HSC2300 or PBH2003 + one of PBH2004, PBH2005, PBH2006 or PBH2008 + two of PBH3001, PBH3002, PBH3003, PBH3004 or PBH3005 + one of PBH3009 or PBH3010 + one of PBH3011 or PBH3012.

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

OR
An Australian undergraduate degree in a public health or health related discipline + 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 + 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: you must achieve a distinction (70%) or above in the following three units: MPH5040, MPH5041 and MPH5213.

You complete:
• MAP5010 Advanced health practice research project (12 points)

24-point research project*
Prerequisites: you must achieve a distinction in the following four units: MPH5040, MPH5041, MPH5213 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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part B (24 points) Foundations of public health studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>MPH5040 Introductory epidemiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MPH5041 Introductory biostatistics</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>MPH5213 Research methods</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MPH5288 Introduction and challenges in public health</td>
<td></td>
</tr>
<tr>
<td><strong>Part A (24 points) Expanding public health knowledge:</strong> Students must complete at least one unit from MPH5002, MPH5022, MPH5203, MPH5207, MPH5214, MPH5218 &amp; MPH5256 PLUS at least one unit from MPH5266, MPH5269, MPH5272, MAP4200</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>MPH5002 Foundations of health promotion and program planning or MPH5207 Chronic diseases: epidemiology and prevention or MPH5256 Injury epidemiology and prevention or Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MPH5266 Clinical leadership and management or MPH5269 Foundations of health policy or MAP4200 Improving Indigenous equity in professional practice or Elective</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>MPH5022 Evaluating public health programs or MPH5203 Environmental influences on health or MPH5214 Demographic Methods or MPH5218 Infectious diseases: epidemiology and prevention or Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MPH5272 Principles of health systems or MPH5266 Clinical leadership and management or Elective</td>
<td></td>
</tr>
<tr>
<td><strong>Part C (48 points) Advanced application expertise</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 3</strong></td>
<td></td>
<td>For the 24 cpt project students complete: MPH5022 Regression methods for epidemiology* or Elective</td>
</tr>
<tr>
<td>Semester 1</td>
<td>Elective x 2</td>
<td>Elective x 2</td>
</tr>
<tr>
<td></td>
<td>For the 12 cpt project students complete: Elective x 2</td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>Elective x 2</td>
<td>Elective x 2</td>
</tr>
<tr>
<td><strong>YEAR 4</strong></td>
<td></td>
<td>For the 24 cpt project students complete: MAP5000 Research in advanced health professional practice** (12 cpt) plus MAP5010 Advanced health practice research project** (12 cpt) in Semester 2 For the 12 cpt project students complete: Elective x 2</td>
</tr>
<tr>
<td>Semester 1</td>
<td>Elective x 2</td>
<td>MPH5273 Case study Elective</td>
</tr>
<tr>
<td></td>
<td>For the 24 cpt project students complete: MAP5010 Advanced health practice research project** (12 cpt)</td>
<td></td>
</tr>
</tbody>
</table>
| Semester 2 | MPH5289 Professional practice development Elective | MPH5289 Professional practice development MPH5273 Case study | For the 12 cpt project students complete: MAP5010 Advanced health practice research project** (12 cpt)
### PART-time structure – 72 credit points

<table>
<thead>
<tr>
<th>Structure 1</th>
<th>Structure 2</th>
<th>Structure 3</th>
</tr>
</thead>
</table>

#### Part B (24 points) Foundation of public health studies

**YEAR 1**
- **Semester 1**
  - MPH5040 Introductory epidemiology
  - MPH5041 Introductory biostatistics
- **Semester 2**
  - MPH5213 Research methods
  - MPH5288 Introduction and challenges in public health

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

**YEAR 2**
- **Semester 1**
  - Elective x 2
  - Elective x 2
- **Semester 2**
  - Elective x 2
  - Elective x 2

**YEAR 3**
- **Semester 1**
  - Elective x 2
  - MPH5273 Case study
  - Elective
- **Semester 2**
  - MPH5289 Professional practice development
  - MPH5273 Case study
  - MPH5289 Professional practice development

For the 24 cpt project students complete: MPH5200 Regression methods for epidemiology* or Elective
For the 12 cpt project students complete: Elective

* 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.

+ Next available in 2020

Further information is available at: monash.edu/pubs/handbooks/courses/M6024.html

---

### PART-time structure – 48 credit points

<table>
<thead>
<tr>
<th>Structure 1</th>
<th>Structure 2</th>
<th>Structure 3</th>
</tr>
</thead>
</table>

#### Part B (24 points) Foundation of public health studies

**YEAR 1**
- **Semester 1**
  - MPH5040 Introductory epidemiology
  - MPH5041 Introductory biostatistics
- **Semester 2**
  - MPH5213 Research methods
  - MPH5288 Introduction and challenges in public health

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

**YEAR 2**
- **Semester 1**
  - Elective x 2
  - Elective x 2
- **Semester 2**
  - Elective x 2
  - Elective x 2

For the 24 cpt project students complete: MPH5010 Advanced health practice research project** (12 cpt)
For the 12 cpt project students complete: MAP5010 Advanced health practice research project** (12 cpt)

* 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.

+ Next available in 2020

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>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Epidemiology and biostatistics</th>
<th>Clinical research</th>
<th>Health economics</th>
<th>Disease/behavioural 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>
<th>Occupational and environmental health</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5002</td>
<td>Foundations of health promotion and program planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5200</td>
<td>Regression methods for epidemiology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5207</td>
<td>Chronic diseases: epidemiology and prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5236</td>
<td>Clinical trials</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5241</td>
<td>Introduction to occupational health and safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5242</td>
<td>Psychosocial work environment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5243</td>
<td>Chemical and biological hazards</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5255</td>
<td>Health and human rights</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5266</td>
<td>Clinical leadership and management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5268</td>
<td>Economics and financial management in health care</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5269</td>
<td>Foundations of health policy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5271</td>
<td>Implementation and innovation in health care</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5276</td>
<td>Safety management systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5277</td>
<td>Practical data management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5281</td>
<td>Management theory and practice (winter elective)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC5970</td>
<td>Introduction to health economics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC5975</td>
<td>Principles of health economics for developing countries</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAP4200</td>
<td>Improving indigenous equity in professional practice</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POM5005</td>
<td>Human factors for patient safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit</td>
<td>Title</td>
<td>Epidemiology and biostatistics</td>
<td>Clinical research</td>
<td>Health economics</td>
<td>Disease/behaviour prevention and control</td>
<td>Global health and human rights</td>
<td>Health policy, planning and management</td>
<td>Global health and human rights</td>
<td>Health policy, planning and management</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------</td>
<td>--------------------------------</td>
<td>-------------------</td>
<td>------------------</td>
<td>------------------------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>MPH5022</td>
<td>Evaluating public health programs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5042</td>
<td>Climate change and public health</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5203</td>
<td>Environmental influences on health</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5214</td>
<td>Demographic methods</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5218</td>
<td>Infectious diseases: epidemiology and prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5222</td>
<td>Assessment and control of workplace hazards</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5239</td>
<td>Systematic reviews and meta analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5244</td>
<td>Ergonomic and physical hazards</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5252</td>
<td>Global health care delivery: principles and challenges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5256</td>
<td>Injury epidemiology and prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5265</td>
<td>Law for health systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5266</td>
<td>Clinical leadership and management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5267</td>
<td>Principles of health care quality improvement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5270</td>
<td>Advanced statistical methods for clinical research</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5272</td>
<td>Principles of health systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5283</td>
<td>Ethics, good research practice and practical research skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5286</td>
<td>Applying and practising the principles of PS and QI</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC5973</td>
<td>Economics evaluation in health care</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5002</td>
<td>Foundations of international health</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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, MPH5214, MPH5218, MPH5256, 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/2019handbooks/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:

- An Australian undergraduate degree (or equivalent) in a relevant discipline with a weighted average of at least 60% or equivalent GPA plus a minimum of two years of relevant experience
- Relevant experience includes 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>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td></td>
</tr>
<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>MPH5310 Introduction to environmental health</td>
</tr>
<tr>
<td>TP4</td>
<td>MPH5306 Evaluation in public health</td>
</tr>
<tr>
<td>TP5</td>
<td>MPH5307 Introduction to health law principles</td>
</tr>
<tr>
<td>TP6</td>
<td>MPH5313 Challenges in public health</td>
</tr>
<tr>
<td>2020</td>
<td></td>
</tr>
<tr>
<td>TP1</td>
<td>MPH5308 Developing health systems</td>
</tr>
<tr>
<td>TP2</td>
<td>MPH5309 Occupational health and safety</td>
</tr>
<tr>
<td>TP3</td>
<td>MPH5314 Epidemiology of chronic disease</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>MPH5303 Epidemiology of infectious diseases</td>
</tr>
</tbody>
</table>

Further information
admissions.online@monash.edu
monash.edu/study/courses/find-a-course/2019/public-health-m6021
monash.edu/pubs/2019handbooks/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 minimum of one year of full-time-equivalent experience in clinical/health research or in a quantitative sector (e.g. engineering) AND

- 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 in 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.

<table>
<thead>
<tr>
<th>Part-time structure – 72 credit points</th>
<th>M4014 Graduate certificate (exit option only)</th>
<th>M5017 Graduate diploma</th>
<th>M6025 Master's</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>MPH5040 Introductory epidemiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5002 Mathematical background for biostatistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>EPM5005 Data management and statistical computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5014 Probability and distribution theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>EPM5003 Principles of statistical inference</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5004 Linear models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>EPM5007 Design of experiments and clinical trials</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5009 Categorical data and generalised linear models</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR 3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td>EPM5010 Survival analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One of either EPM5011 or EPM5015</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5011 Biostatistical practical project (12 pts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPM5015 Biostatistical practical project (6 pts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>EPM5011 or Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective units from the list below</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5001 Health indicators and health surveys</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5006 Clinical biostatistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5008 Longitudinal and correlated data analysis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5012 Bioinformatics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPM5013 Bayesian statistical methods</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
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 a weighted average mark (WAM) of at least 60% or an equivalent GPA as determined by the faculty

OR
An Australian undergraduate degree (or equivalent) in a relevant discipline with a minimum of two years’ relevant work experience

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

OR
An Australian undergraduate degree in a relevant discipline + 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 + 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

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 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 and 6 points from Part B = 48 credit points

PART A  Clinical research studies: MPH5040, MPH5041, MPH5213, MPH5283, MPH5239 and MPH5236

PART B  Advanced application studies: MAP5010 (12 cpt) plus 18 points of Elective units

| YEAR 1 | Semester 1 | MPH5040 Introductory epidemiology | MPH5041 Introductory biostatistics | M4016 Graduate certificate* (exit option) |
|        | Semester 2 | MPH5213 Research methods | MPH5283 Ethics, good research practice and practical research skills | M5020 Graduate diploma* (exit option) |
| YEAR 2 | Semester 1 | MPH5277 Practical data management | Elective | M6028 Master’s |
|        | Semester 2 | MPH5239 Systematic reviews and meta-analysis | Elective | |
| YEAR 3 | Semester 1 | MPH5236 Clinical trials | Elective | |
|        | Semester 2 | MAP5010 Advanced health practice research | Elective | |

* Students must satisfy specific award requirements see alternate exits below
** Prerequisites apply see progression to further studies below

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% in units: MPH5040, MPH5041 and MPH5213 to progress into the project unit MAP5010. 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.
- Graduate Diploma of Clinical Research (course code: M5020) after successful completion of units: MPH5040, MPH5041, MPH5213, MPH5283, MPH5277, MPH5239, MPH5236 plus 6 points (one) elective unit.

Further information

Professor Danny Liew
Course coordinator
E: danny.liew@monash.edu
monash.edu/
pubs/2019handbooks/
courses/M6028.html
Master of Health 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 Master of Health Management 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, strengthen your decision-making ability, and equip you with the necessary tools to assess and implement innovative solutions to create positive organisational culture.

The Master of Health Management 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 Management

The Graduate Diploma in Health Management provides a comprehensive overview of the core competencies required to be an effective health services leader, encompassing eight units from within the Master of Health Management 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 Management.

Graduate Certificate in Health Management

The Graduate Certificate in Health Management provides an introduction to key concepts within the Master of Health Management 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 Management and then M6008 Master of Health Management or can lead to M6024 Master of Public Health.
## Course structure

Units are six credit points unless otherwise stated.

- Graduate certificate
- Graduate diploma
- Master’s

### Part-time structure – 72 credit points

| PART A | Advanced healthcare administration & management: MPH5265, MPH5266, MPH5267, MPH5268, MPH5269, MPH5272 & MPH5273 (12cpt) |
| PART B | Extending specialist knowledge and electives: 24 points of Elective units |

#### YEAR 1

**Semester 1**
- MPH5266 Clinical leadership and management
- MPH5268 Economics and Financial management in health care

**Semester 2**
- MPH5265 Law for health systems
- MPH5267 Principles of health care quality improvement

#### YEAR 2

**Semester 1**
- MPH5269 Foundations of health policy
- Elective

**Semester 2**
- MPH5272 Principles of health systems
- Elective

#### YEAR 3

**Semester 1**
- MPH5273 HSM case study
- Elective

**Semester 2**
- MPH5273 HSM case study
- Elective

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

<table>
<thead>
<tr>
<th>Elective</th>
<th>M4006 Graduate certificate</th>
<th>M5007 Graduate diploma</th>
<th>M6008 Master’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5020 Introduction to epidemiology and biostatistics</td>
<td>Part A unit*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5040 Introductory epidemiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5041 Introductory biostatistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5213 Research Methods</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5271 Implementation and innovation in health care (new)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5281 Management theory and practice (new winter elective)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5283 Ethics, good research practice and practical research skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPH5286 Applying and practising the principles of patient safety and quality improvement (not offered in 2019)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC5970 Introduction to health economics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC5973 Economics evaluation in health care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPE5003 Assessment in health professional education (not offered in 2019)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPE5015 Leadership and innovations in health professions education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR5327 Management and leadership of professional nursing practice (12 cpts)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POM5005 Human factors for patient safety</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any graduate unit offered by the Department of Epidemiology and Preventive Medicine (excluding units: MPH5301-MPH5315, EPM5001-EPM5015)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: To satisfy the requirements for the RACMA Fellowship elective units required are: MPH5040, MPH5041, MPH5213

* Excluding MPH5273 & subject to semester availability

Further information available at: monash.edu/pubs/handbooks
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 elective 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 Management (course code: M4006) after successful completion of any four units from MPH5265, MPH5266, MPH5267, MPH5268, MPH5269 & MPH5272.
- Graduate Diploma in Health Services Management (course code: M5007) after successful completion of MPH5265, MPH5266, MPH5267, MPH5268, MPH5269, MPH5272 and two electives.

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

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

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

Ms Lynne Denby
Program Manager
E: lynne.denby@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.
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.

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>2019</td>
<td></td>
</tr>
<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>ACF5268 Accounting for health care managers</td>
</tr>
</tbody>
</table>

2020

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<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>
</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/2019/health-administration-M6007
monash.edu/pubs/2019handbooks/courses/M6007.html

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

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.

## GradDip and M0ccEnvlHlth Coursework option – part-time structure – 72 credit points

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester</th>
<th>MPH5241 Introduction to occupational health and safety</th>
<th>MPH5243 Chemical and biological hazards</th>
<th>MPH5222 Assessment and control of workplace hazards</th>
<th>MPH5244 Ergonomic and physical hazards</th>
<th>MPH5242 Psychosocial work environment</th>
<th>MPH5276 Safety management systems</th>
<th>MPH5040 Introductory epidemiology</th>
<th>MPH5041 Introductory biostatistics</th>
<th>Elective</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>MPH5241 Introduction to occupational health and safety</td>
<td>MPH5243 Chemical and biological hazards</td>
<td>MPH5222 Assessment and control of workplace hazards</td>
<td>MPH5244 Ergonomic and physical hazards</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5040 Introductory epidemiology</td>
<td>MPH5041 Introductory biostatistics</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>MPH5040 Introductory epidemiology*</td>
<td>MPH5041 Introductory biostatistics*</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5040 Introductory epidemiology</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>MPH5213 Research methods*</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5213 Research methods*</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5276 Safety management systems</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

## MOccEnvlHlth – Research option – part-time structure – 72 credit points

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester</th>
<th>MPH5241 Introduction to occupational health and safety</th>
<th>MPH5243 Chemical and biological hazards</th>
<th>MPH5222 Assessment and control of workplace hazards</th>
<th>MPH5244 Ergonomic and physical hazards</th>
<th>MPH5040 Introductory epidemiology*</th>
<th>MPH5041 Introductory biostatistics*</th>
<th>MPH5213 Research methods*</th>
<th>MPH5203 Environmental influences on health</th>
<th>Elective units from the list below</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>MPH5241 Introduction to occupational health and safety</td>
<td>MPH5243 Chemical and biological hazards</td>
<td>MPH5222 Assessment and control of workplace hazards</td>
<td>MPH5244 Ergonomic and physical hazards</td>
<td>MPH5040 Introductory epidemiology*</td>
<td>MPH5041 Introductory biostatistics*</td>
<td>MPH5213 Research methods*</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5250 Advanced health practice research project** (12 cpt)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>MPH5040 Introductory epidemiology*</td>
<td>MPH5041 Introductory biostatistics*</td>
<td>MPH5213 Research methods*</td>
<td>MPH5203 Environmental influences on health</td>
<td>MPH5250 Advanced health practice research project** (12 cpt)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5250 Advanced health practice research project** (12 cpt)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>MPH5276 Safety management systems</td>
<td>MPH5242 Psychosocial work environment</td>
<td>MPH5250 Advanced health practice research project** (12 cpt)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* You must achieve a distinction (70%) or above in units MPH5040, MPH5041 and MPH5213 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 GradOHSProf.

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.
# Units 2019

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

<table>
<thead>
<tr>
<th>Introduction to health economics HEC5970</th>
<th>Economic evaluation in health care HEC5973</th>
<th>Principles of health economics for developing countries HEC5975</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LECTURER</strong> Dr A Sharma</td>
<td><strong>LECTURER</strong> Dr R Knott</td>
<td><strong>LECTURER</strong> Associate Professor D Mortimer</td>
</tr>
<tr>
<td><strong>POINTS</strong> 6</td>
<td><strong>POINTS</strong> 6</td>
<td><strong>POINTS</strong> 6</td>
</tr>
<tr>
<td><strong>MODE OF STUDY</strong> Off-campus</td>
<td><strong>MODE OF STUDY</strong> Off-campus</td>
<td><strong>MODE OF STUDY</strong> On-campus block of classes</td>
</tr>
<tr>
<td><strong>SEMESTER</strong> 1</td>
<td><strong>SEMESTER</strong> 2</td>
<td><strong>SEMESTER</strong> 1</td>
</tr>
<tr>
<td><strong>CAMPUS</strong> Clayton</td>
<td><strong>CAMPUS</strong> Clayton</td>
<td><strong>CAMPUS</strong> Alfred</td>
</tr>
</tbody>
</table>

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/2019handbooks/units/HEC5970.html

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

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/2019handbooks/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/2019handbooks/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

Co-requisite

Mathematical background for biostatistics

EPM5002

LECTURER  Dr T Mattner

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/2019handbooks/units/EPM5005.html
### Clinical biostatistics

**EPM5006**

- **Lecturer**: Professor A Dobson
- **Points**: 6
- **Mode of Study**: Off-campus
- **Semester**: 1
- **Campus**: Alfred

**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 questions. 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/handbooks/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

### 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

---

### 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 well as 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
Biostatistics practical project – double unit
EPM5011

LECTURER Professor A Forbes

POINTS 12

MODE OF STUDY Off-campus

SEMESTER 1 or 2 or FY

CAMPUS Alfred

Prerequisites
EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014, MPH5040

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.

You’ll be allocated, or may select, one or more research projects, and required to make regular contact with the associated health research personnel together with the supervisor. Under the guidance of the supervisor, you’ll assume responsibility for statistical aspects of the relevant research project(s), perform an analysis of appropriate complexity for the project, then present and interpret the results in a written and oral form.

monash.edu/pubs/handbooks/units/EPM5011.html

Bioinformatics
EPM5012

LECTURER Dr N Armstrong

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 2

CAMPUS Alfred

Prerequisites
EPM5002, EPM5003, EPM5004, EPM5014, MPH5040

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.

monash.edu/pubs/handbooks/units/EPM5012.html

Bayesian statistical methods
EPM5013

LECTURER Associate Professor L Gurrin

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 2*

CAMPUS Alfred

Prerequisites
EPM5002, EPM5003, EPM5004, EPM5009, EPM5014, MPH5040

This unit provides a thorough introduction to the concepts and methods of modern Bayesian statistical methods with particular emphasis on practical applications in biostatistics.

Comparison of Bayesian concepts involving prior distributions with classical approaches to statistical analysis, particularly likelihood-based methods. Applications to fitting hierarchical models to complex data structures via simulation from posterior distributions using Markov chain Monte Carlo techniques (MCMC) with the WinBUGS software package.

monash.edu/pubs/handbooks/units/EPM5013.html

Probability and distribution theory
EPM5014

LECTURER Professor R Wolfe, Professor A Forbes

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 1 or 2

CAMPUS Alfred

Prerequisites
EPM5002

This unit involves the study of basic probability and calculus-based methods of underpinning probability distributions and parameter estimation.

monash.edu/pubs/handbooks/units/EPM5014.html

Biostatistical practical project – single unit
EPM5015

LECTURER Professor A Forbes

POINTS 6

MODE OF STUDY Off-campus

SEMESTER 1 or 2

CAMPUS Alfred

Prerequisites
EPM5002, EPM5003, EPM5004, EPM5005, EPM5009, EPM5014, MPH5040

This unit will involve you being exposed to a real-life biostatistical problem arising in an academic health research environment or industry. You’ll be supervised by an experienced biostatistician with a staff or honorary appointment at Monash University. You’ll be allocated, or may select, one research project to be involved in, and will be required to make regular contact with the associated health research personnel together with the supervisor. You’ll perform an analysis of appropriate complexity for the project, and present and interpret the results in a written form to the health researcher and supervisor.

monash.edu/pubs/handbooks/units/EPM5015.html
Foundations of international health
EPM5023

LECTURER
Associate Professor B Loft

POINTS 6

MODE OF STUDY
OCL online plus block days

SEMESTER 2

CAMPUS Alfred

This unit is about the international frameworks that influence health at a local level. The unit seeks to provide you with an understanding of international mechanisms that have an impact on health, including their creation, their content, the kind of strong or weak influence they exert over governments, mechanisms of enforcement, and the problems and benefits presented by these different mechanisms. The unit begins by considering the emergence of "tropical medicine" as a colonial specialty and the lasting influence of this on health. The concept of development and the role of public international law will be introduced as a background to policy making by international agencies as it affects health.

monash.edu/pubs/handbooks/units/EPM5023.html

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

Research in advanced health professional practice
MAP5000

LECTURER
Dr S Braff

POINTS 12

MODE OF STUDY Off-campus

SEMESTER 1 or 2

CAMPUS Alfred

Prerequisites
Please consult your course structure as prerequisites and consultation are required prior to enrolling in research project unit/s.

This unit is designed to equip students with the skills to design a research protocol for implementation in the post-requisite unit MAP5010 Advanced health practice research project for the 24 cpt research project (12 cpt research project students complete MAP5010 only). This will provide health practitioners with the skills to confidently and successfully conduct professional focused research of interest to them. Students will review existing research literature, create a research question, select an appropriate methodology and finalise a research protocol for institutional ethics approval.

monash.edu/pubs/handbooks/units/MAP5010.html

Advanced health practice research project
MAP5010

LECTURER
Dr S Braff

POINTS 12

MODE OF STUDY Off-campus

SEMESTER 1 or 2

CAMPUS Alfred

Prerequisites
Please consult your course structure as prerequisites and consultation are required prior to enrolling in research project unit/s.

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.

Attention will be given to the opportunities and challenges presented in different organisational settings, and social and cultural contexts.

monash.edu/pubs/handbooks/units/MPH5002.html

Foundations of health promotion and program planning
MPH5002

LECTURER
M Drieberg

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.

Attention will be given to the opportunities and challenges presented in different organisational settings, and social and cultural contexts.

monash.edu/pubs/handbooks/units/MPH5002.html

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
Evaluation public health programs
MPH5022

**LECTURER**
S Carmody

**POINTS** 6

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

**SEMESTER** 2

**CAMPUS** Alfred

Program evaluation is important for measuring the effect of public health programs and determining their influence on longer-term health outcomes. It also provides valuable evidence to improve the delivery, reach and impact of public health strategies.

This unit will enable you to design evaluations that are suitable for a range of public health and disease prevention programs. You will conduct evaluation planning based on theoretical approaches and best-practice principles.

Levels of evaluation will be examined, as well as the range of quantitative and qualitative data collection methods suitable for the different contexts and stakeholders involved in public health practice. The unit will equip you with the skills to choose appropriate methods for data collection, as well as use suitable evaluation frameworks, tools and resources specific to public health and disease prevention programs.

monash.edu/pubs/2019handbooks/units/MPH5022.html

Introductory epidemiology
MPH5040

**LECTURER** Dr M Hussain, Dr Y 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.

Upon completion of this unit you 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/2019handbooks/units/MPH5040.html

Introductory biostatistics
MPH5041

**LECTURER** Dr B 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/2019handbooks/units/MPH5041.html
### Environmental influences on health

**MPH5203**

<table>
<thead>
<tr>
<th>LECTURER</th>
<th>Dr E MacFarlane</th>
</tr>
</thead>
<tbody>
<tr>
<td>POINTS</td>
<td>6</td>
</tr>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and three block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>LECTURER</th>
<th>Dr D Gasevic</th>
</tr>
</thead>
<tbody>
<tr>
<td>POINTS</td>
<td>6</td>
</tr>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>1</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

Chronic disease: Epidemiology and prevention

- monash.edu/pubs/handbooks/units/MPH5207.html

### Research methods

**MPH5213**

<table>
<thead>
<tr>
<th>LECTURER</th>
<th>Dr A Wluka</th>
</tr>
</thead>
<tbody>
<tr>
<td>POINTS</td>
<td>6</td>
</tr>
<tr>
<td>MODE OF STUDY</td>
<td>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</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

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

### Regression methods for epidemiology

**MPH5200**

<table>
<thead>
<tr>
<th>LECTURER</th>
<th>Professor R Wolfe</th>
</tr>
</thead>
<tbody>
<tr>
<td>POINTS</td>
<td>6</td>
</tr>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and 2 x 2 block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>1</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

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/2019handbooks/units/MPH5200.html
## Assessment and control of workplace hazards

**MPH5222**

**LECTURER** Dr G Benke

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and three block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**Prerequisites**

MPH5040

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

## Systematic reviews and meta-analysis

**MPH5239**

**LECTURER** Dr R Johnston

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</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

## Demographic methods

**MPH5214**

**LECTURER** Dr S McGuinness, Professor K Leder

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**Prerequisites**

MPH5040

This unit gives you a solid foundation in formal demography, where quantitative data and techniques are used to calculate demographic measures. Topics include sources of demographic data and assessment of their quality; calculation and interpretation of basic measures of fertility, mortality and migration; population dynamics, growth and ageing; life tables; Indigenous demography; and population projections. Learning activities include hands-on calculation and interpretation of demographic measures using real-world data.

monash.edu/pubs/handbooks/units/MPH5214.html

## Infectious diseases: epidemiology and prevention

**MPH5218**

**LECTURER** Dr D Liew

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**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 trials

**MPH5236**

**LECTURER** Dr A Silcock

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>1</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**Co-requisite**

MPH5213

**Prerequisites**

MPH5040

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

## Introduction to occupational health and safety

**MPH5241**

**LECTURER** Associate Professor R Kippen

<table>
<thead>
<tr>
<th>POINTS</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODE OF STUDY</td>
<td>OCL online and two block days</td>
</tr>
<tr>
<td>SEMESTER</td>
<td>2</td>
</tr>
<tr>
<td>CAMPUS</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

**Prerequisites**

MPH5040

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/2019handbooks/units/MPH5241.html
Understanding global health in a modern, globalised world has never been more challenging or significant. Global health lies at the nexus of global patterns of biological and social disorder and the need for effective, integrated and practical global health care delivery is crucial and immediate.

You will explore global health care delivery using a practical, human rights based approach. It will include critical analysis of the impacts of globalisation on human health, postcolonial frameworks for global health understanding and the governance structures that oversee global health. It will also analyse factors that contribute to global health inequality and assist in development of intercultural competence.

Topics for discussion will include: barriers to migrant and refugee health care; the impacts of development, AID and colonisation on global health care; the relationships between neoliberalism and neglected diseases; and the successes and failures of global health governance.

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.

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.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>LECTURER</th>
<th>POINTS</th>
<th>MODE OF STUDY</th>
<th>SEMESTER</th>
<th>CAMPUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law for health systems</td>
<td>N Mollard</td>
<td>6</td>
<td>OCL online and two block days</td>
<td>2</td>
<td>Alfred</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles of health care quality improvement</td>
<td>Associate Professor S Evans</td>
<td>6</td>
<td>OCL online and two block days</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foundation of health policy</td>
<td>M Drieberg</td>
<td>6</td>
<td>OCL online and two block days</td>
<td>1</td>
<td>Alfred</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review of legal management principles related to health care by examining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>common law principles and statutes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examination of the Australian legal system, including the Coroner's Court,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with an emphasis on Victorian and Commonwealth cases and statutes. Focus on</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>key areas of medical and health law such as negligence consent, privacy of</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>health information, clinical research, abortion, euthanasia, mental health,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>infectious diseases, health complaints and law for health facilities such as</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>hospitals.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monash.edu/pubs/handbooks/units/MPH5265.html</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical leadership and management</td>
<td>Dr P Bradford</td>
<td>6</td>
<td>OCL online and two block days</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reviews key management, organisation theory &amp; its application to healthcare</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>settings. The role of the manager, leadership skills, staffing issues</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>including performance management, managing change, structuring organisations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for patient care, developing strategy, and designing business plans.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monash.edu/pubs/handbooks/units/MPH5266.html</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics and financial management in health care</td>
<td>K Makarounas-Kirchmann, R</td>
<td>6</td>
<td>OCL online and two block days</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cornick</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>An introduction to basic accounting principles for non-accountants. Financial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>issues confronting clinical managers, including the understanding and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>interpretation of common accounting reports, budgeting and financial analysis.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>An introduction to basic economic theory relevant to clinicians and clinical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>managers, including funding health care services and economics evaluations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>that guide health care policy and decision-making.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monash.edu/pubs/handbooks/units/MPH5268.html</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced statistical methods for clinical research</td>
<td>Associate Professor A Earnest</td>
<td>6</td>
<td>OCL online and three block days</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delivery of health services is underpinned by a framework of health policies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and other health system elements. Health professional leaders and managers,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>those who aspire to these roles, need to know about these policies and about</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>the process of policymaking so that they can understand why a policy is what</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>it is, and how to engage in the policy making process.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monash.edu/pubs/handbooks/units/MPH5269.html</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit grades in MPH5040 and MPH5041; familiarity with Stata statistical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>software; MPH5200 is recommended.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistical methods for clinical trials data, including design considerations,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sequential analysis, bioequivalence and analysis of repeated measures data.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods for measuring agreement between raters or instruments, including</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kappa statistics and intraclass correlation coefficients. Analysis of survival</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>time data with Kaplan-Meier graphs and Cox proportional hazards regression</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>models. Combination of lectures and data analysis sessions on laptop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>computers.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monash.edu/pubs/handbooks/units/MPH5270.html</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Implementation and innovation in health care
MPH5271

LECTURER Dr T Robinson

POINTS 6

MODE OF STUDY OCL online and two block days

SEMESTER 1

CAMPUS Alfred

This unit provides students with the skills and knowledge to develop and implement healthcare improvement projects in clinical settings. Health improvement science is crucial for translating new knowledge into practice and delivering the best possible patient care. This requires capacity to mobilise new knowledge and spread and sustain innovation.

This unit aims to equip students with skills needed to translate and mobilise new knowledge and engage with community and service users to conduct healthcare improvement projects and lead innovation. Students will critically apply and evaluate the process of knowledge mobilisation (KM) and strategies commonly used in implementation science. They will discuss and critically evaluate models and strategies for disseminating evidence and leading innovation in the workplace. This includes exploring change management strategies in health environments and strategies for solution co-design.

Strategies to enable knowledge sharing and the role of knowledge brokers will be explored. Specific capabilities for KM include, stakeholder engagement, data collection, managing information systems, process and system thinking. Students will learn how to identify gaps in healthcare, manage data and information and co-design solutions with key stakeholders.

monash.edu/pubs/handbooks/units/MPH5271.html

Principles of health systems
MPH5272

LECTURER TBC

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

HSM case study
MPH5273

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

POINTS 12

MODE OF STUDY OCL online and block day

SEMESTER 1 or 2 or FY

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

Safety management systems
MPH5276

LECTURER C Gilmour

POINTS 6

MODE OF STUDY OCL online and three-day block

SEMESTER 1

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

Practical data management
MPH5277

LECTURER Dr J Lockery

POINTS 6

MODE OF STUDY OCL online and two-day block

SEMESTER 1

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
Management Theory and practice  
MPH5281

LECTURER Prof I Rouse

POINTS 6

MODE OF STUDY OCL and four day block

SEMESTER WS-01

CAMPUS Alfred

The overall aim of this unit is to introduce experienced managers, clinicians and researchers working in healthcare to the key principles of management theory, and how these may directly apply to management practice in a healthcare setting. In the current era of evidence-based practice, a sound knowledge of management theory supported by evidence is essential for managers and clinicians of the future to succeed as healthcare leaders.

monash.edu/pubs/handbooks/units/MPH5281.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

Applying and practicing the principles of patient safety and quality improvement  
MPH5286

LECTURER TBC

POINTS 6

MODE OF STUDY OCL online plus two block days

SEMESTER 2

CAMPUS Alfred

Prequisite MPH5267

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

monash.edu/pubs/handbooks/units/MPH5286.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 be expected to engage with current public health issues and communicate their ideas clearly and effectively.

monash.edu/pubs/handbooks/units/MPH5288.html

Human factors for patient safety  
POM5005

LECTURER Dr S Marshall, R Schnittker

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/handbooks/units/POM5005.html

Professional practice development  
MPH5289

LECTURER Dr D Ayton, R Morello

POINTS 6

MODE OF STUDY OCL online plus three day block

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/handbooks/units/MPH5289.html

Applying and practicing the principles of patient safety and quality improvement  
MPH5286

LECTURER TBC

POINTS 6

MODE OF STUDY OCL online plus two block days

SEMESTER 2

CAMPUS Alfred

Prequisite MPH5267

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

monash.edu/pubs/handbooks/units/MPH5286.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 be expected to engage with current public health issues and communicate their ideas clearly and effectively.

monash.edu/pubs/handbooks/units/MPH5288.html
Monash online courses

The following units are available to the Monash course codes: 4528/M6007 or 4529/M6021 only, and not available to students enrolled in other courses.

Health systems and policy

**MPH5301**

- **LECTURER**: M Drieberg
- **POINTS**: 6
- **MODE OF STUDY**: Online
- **SEMESTER**: TP4, 2020
- **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, 2020
- **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, 2020
- **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)
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Lecturer</th>
<th>Points</th>
<th>Mode of Study</th>
<th>Semester</th>
<th>Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiology: concepts and applications MPH5305</td>
<td>Dr M Hussain</td>
<td>6</td>
<td>Online</td>
<td>TP2, 2019</td>
<td>Alfred</td>
</tr>
<tr>
<td>Introduction to health law principles MPH5307</td>
<td>N Mollard</td>
<td>6</td>
<td>Online</td>
<td>TP5, 2019</td>
<td>Alfred</td>
</tr>
<tr>
<td>Occupational health and safety MPH5309</td>
<td>Dr A Sillcock</td>
<td>6</td>
<td>Online</td>
<td>TP2, 2020</td>
<td>Alfred</td>
</tr>
<tr>
<td>Evaluation in public health MPH5306</td>
<td>Professor D Illic</td>
<td>6</td>
<td>Online</td>
<td>TP4, 2019</td>
<td>Alfred</td>
</tr>
<tr>
<td>Developing health systems MPH5308</td>
<td>Dr H Rowe</td>
<td>6</td>
<td>Online</td>
<td>TP1, 2020</td>
<td>Alfred</td>
</tr>
<tr>
<td>Introduction to environmental health MPH5310</td>
<td>Dr H Kelsall</td>
<td>6</td>
<td>Online</td>
<td>TP3, 2019</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

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

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

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

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

monash.edu/pubs/handbooks/units/MPH5308.html

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>
<thead>
<tr>
<th>Course</th>
<th>Lecturer</th>
<th>Points</th>
<th>Mode of Study</th>
<th>Semester</th>
<th>Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety and quality in health care MPH5311</td>
<td>Dr T Robinson</td>
<td>6</td>
<td>Online</td>
<td>TP4, 2019</td>
<td>Alfred</td>
</tr>
<tr>
<td>Advances in managing patient care processes MPH5312</td>
<td>Professor J Ibrahim</td>
<td>6</td>
<td>Online</td>
<td>TP2, 2020</td>
<td>Alfred</td>
</tr>
<tr>
<td>Challenges in public health MPH5313</td>
<td>Dr H Kelsall</td>
<td>6</td>
<td>Online</td>
<td>T6, 2019</td>
<td>Alfred</td>
</tr>
<tr>
<td>Introduction to management MPH5315</td>
<td>Professor I Rousse</td>
<td>6</td>
<td>Online</td>
<td>TP3, 2020</td>
<td>Alfred</td>
</tr>
</tbody>
</table>

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

Epidemiology of chronic disease MPH5314

Lecturer Dr D Gasevic

Points 6

Mode of Study Online

Semester TP3, 2020

Campus Alfred

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/2019handbooks/units/MPH5314.html

Marketing for healthcare managers MKF5505

Lecturer TBC

Points TBC

Mode of Study Online

Semester TP6, 2020

Campus Alfred

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
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/handbooks/units/ECC5979.html

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.

monash.edu/pubs/handbooks/units/ACF5268.html
As this can change from time to time you must check the updated timetable information available on our postgraduate webpage: med.monash.edu/epidemiology/pgrad

2019 Timetable

Semester 1
4 March – 31 May

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH5002</td>
<td>Foundations of Health Promotion and Program Planning</td>
<td>Michaela Drieberg</td>
<td>OCL + 2 day block</td>
<td>15 Mar + 3 May</td>
</tr>
<tr>
<td>MPH5020</td>
<td>Introduction to Epidemiology &amp; Biostatistics</td>
<td>Miranda Davies</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5040</td>
<td>Introductory Epidemiology (lecture)</td>
<td>Morira Hussain / Yuanyuan Wang</td>
<td>Weekly - LEC</td>
<td>Thurs 9 - 10am</td>
</tr>
<tr>
<td>MPH5040</td>
<td>Introductory Epidemiology (tutorial)</td>
<td>Morira Hussain / Yuanyuan Wang</td>
<td>Weekly - TUTE</td>
<td>Thurs 10 - 11am</td>
</tr>
<tr>
<td>MPH5041</td>
<td>Introductory Biostatistics (lecture)</td>
<td>Baki Biliah</td>
<td>Weekly - LEC</td>
<td>Thurs 11.30am - 1.30pm</td>
</tr>
<tr>
<td>MPH5041</td>
<td>Introductory Biostatistics (tutorial)</td>
<td>Baki Biliah</td>
<td>Weekly - TUTE</td>
<td>Thurs 2.00 - 4.00pm</td>
</tr>
<tr>
<td>MPH5040</td>
<td>Introductory Epidemiology (DE - Block days)</td>
<td>Morira Hussain</td>
<td>OCL + 2 block days - DE</td>
<td>11 Mar + 10 Apr</td>
</tr>
<tr>
<td>MPH5041</td>
<td>Introductory Biostatistics (DE - Block days)</td>
<td>Baki Biliah</td>
<td>OCL + 3 block days - DE</td>
<td>6 Mar + 8-9 Apr</td>
</tr>
<tr>
<td>MPH5000</td>
<td>Regression Methods for Epidemiology</td>
<td>Rory Wolfe</td>
<td>OCL + 2 x 2 day block</td>
<td>21 - 22 Mar</td>
</tr>
<tr>
<td>MPH5207</td>
<td>Chronic Diseases: Epidemiology &amp; Prevention</td>
<td>Danijela Gasevic</td>
<td>OCL + 2 day block</td>
<td>12 - 13 Mar</td>
</tr>
<tr>
<td>MPH5236</td>
<td>Clinical Trials</td>
<td>Danny Liew</td>
<td>OCL + 2 block days</td>
<td>8 Mar + 31 May</td>
</tr>
<tr>
<td>MPH5241</td>
<td>Introduction to Occupational Health &amp; Safety</td>
<td>Amanda Silcock</td>
<td>OCL + 3 day block</td>
<td>8 - 10 May</td>
</tr>
<tr>
<td>MPH5242</td>
<td>Psychosocial Work Environment</td>
<td>Tessa Keegel</td>
<td>OCL + 3 day block</td>
<td>15 - 17 May</td>
</tr>
<tr>
<td>MPH5243</td>
<td>Chemical &amp; Biological Hazards</td>
<td>Deborah Glass</td>
<td>OCL + 3 day block</td>
<td>25 - 27 Mar</td>
</tr>
<tr>
<td>MPH5255</td>
<td>Health &amp; Human Rights</td>
<td>Bebe Loft</td>
<td>OCL + 4 block days</td>
<td>8 - 10 Apr + 12 Apr</td>
</tr>
<tr>
<td>MPH5266</td>
<td>Clinical Leadership &amp; Management</td>
<td>Peter Bradford</td>
<td>OCL + 2 block days</td>
<td>4 Mar + 15 Apr</td>
</tr>
<tr>
<td>MPH5268</td>
<td>Economics &amp; Financial Management in Health</td>
<td>Kelly Makarunas-Kirchmann / Robert Cornick</td>
<td>OCL + 2 block days</td>
<td>5 Mar + 16 Apr</td>
</tr>
<tr>
<td>MPH5269</td>
<td>Foundations of Health Policy</td>
<td>Micaela Drieberg</td>
<td>OCL + 2 block days</td>
<td>6 Mar + 17 Apr</td>
</tr>
<tr>
<td>MPH5271</td>
<td>Implementation &amp; Innovation in Health Care</td>
<td>Tracy Robinson</td>
<td>OCL + 2 block days</td>
<td>18 Mar + 30 Apr</td>
</tr>
<tr>
<td>MPH5273</td>
<td>Case Study**</td>
<td>David Hillis / Lynne Denby</td>
<td>OCL + 1 block day</td>
<td>19 Mar</td>
</tr>
<tr>
<td>MPH5276</td>
<td>Safety Management Systems</td>
<td>Colleen Gilmour</td>
<td>OCL + 3 day block</td>
<td>1 - 3 May</td>
</tr>
<tr>
<td>MPH5277</td>
<td>Practical Data Management</td>
<td>Jessica Lockery</td>
<td>OCL + 2 block days</td>
<td>5 Apr + 10 May</td>
</tr>
<tr>
<td>MPH5281</td>
<td>Management Theory &amp; Practice</td>
<td>Ian Reuse</td>
<td>OCL + 4 day block</td>
<td>17 - 20 Jun</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>EPS501</td>
<td>Health Indicators &amp; Health Surveys</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS502</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>EPS503</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>EPS504</td>
<td>Linear Models</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS505</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>EPS506</td>
<td>Clinical Biostatistics</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS508</td>
<td>Longitudinal &amp; Correlated Data Analysis</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS510</td>
<td>Survival Analysis</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS501</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>EPS504</td>
<td>Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPS505</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>HEC5970</td>
<td>Introduction to Health Economics</td>
<td>Anurag Sharma</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>HEC5975</td>
<td>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>HEP5015</td>
<td>Leadership &amp; Innovations in Health Professions</td>
<td>Margaret Hay</td>
<td>block</td>
<td>See Monash Timetables</td>
</tr>
<tr>
<td>MAP5290</td>
<td>Improving Indigenous Equity in Professional Practice</td>
<td>Karen Adams</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MAP5000</td>
<td>Research in Advanced Health Professional Practice*</td>
<td>Sandy Braff</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MAP5010</td>
<td>Advanced Health Practice Research Project*</td>
<td>Sandy Braff</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>NUR5315</td>
<td>Advanced Practice in context</td>
<td>Susan Lee</td>
<td>flexible</td>
<td>See Monash Timetables</td>
</tr>
<tr>
<td>PDM5005</td>
<td>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>
</tr>
</tbody>
</table>
## Semester 2
### 29 July – 25 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>Sarah Carmody</td>
<td>OCL + 2 block days</td>
<td>9 Aug + 13 Sep</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>MPH5040/DE</td>
<td>Introductory Biostatistics (DE)</td>
<td>Baki Billah</td>
<td>OCL</td>
<td>NA</td>
</tr>
<tr>
<td>MPH5042</td>
<td>Climate Change &amp; Public Health</td>
<td>Valerie Kay</td>
<td>OCL + 2 block days</td>
<td>7 Aug + 9 Oct</td>
</tr>
<tr>
<td>MPH5023</td>
<td>Environmental Influences on Health</td>
<td>Ewan MacFarlane</td>
<td>OCL + 3 block days</td>
<td>9 – 11 Sept</td>
</tr>
<tr>
<td>MPH5213/ - DAY</td>
<td>Research Methods (DAY)</td>
<td>Anita Wluka</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 Wluka</td>
<td>Option 2: OCL + 2 day block - DE</td>
<td>6 – 7 Aug</td>
</tr>
<tr>
<td>MPH5214</td>
<td>Demographic Methods</td>
<td>Rebecca Kippen</td>
<td>OCL + 2 day block</td>
<td>30 – 31 Jul</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>29 Jul, 2 Sep, 21 Oct</td>
</tr>
<tr>
<td>MPH5222</td>
<td>Assessment &amp; Control of Workplace Hazards</td>
<td>Geza Berke</td>
<td>OCL + 3 day block</td>
<td>16 – 18 Sep</td>
</tr>
<tr>
<td>MPH5239/</td>
<td>Systematic Reviews &amp; Meta Analysis</td>
<td>Renea Johnston</td>
<td>OCL + 2 block days</td>
<td>5 Aug + 14 Oct</td>
</tr>
<tr>
<td>MPH5244</td>
<td>Ergonomic &amp; Physical Hazards</td>
<td>Ruth Stuckey</td>
<td>OCL + 3 day block</td>
<td>28 – 30 Aug</td>
</tr>
<tr>
<td>MPH5252</td>
<td>Global health care delivery: principles and challenges</td>
<td>Matthri Goonetilleke</td>
<td>OCL + 2 day block</td>
<td>23 – 24 Sep</td>
</tr>
<tr>
<td>MPH5265</td>
<td>Law for Health Systems</td>
<td>Nicki Molillard</td>
<td>OCL + 2 block days</td>
<td>29 Jul + 6 Sep</td>
</tr>
<tr>
<td>MPH5266</td>
<td>Clinical Leadership &amp; Management</td>
<td>Peter Bradford</td>
<td>OCL + 2 block days</td>
<td>5 Aug + 16 Sep</td>
</tr>
<tr>
<td>MPH5267</td>
<td>Principles of Health Care Quality Improvement</td>
<td>Sue Evans</td>
<td>OCL + 2 block days</td>
<td>30 Aug + 17 Sep</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>3 – 4 Sep + 15 Oct</td>
</tr>
<tr>
<td>MPH5272</td>
<td>Principles of Health Systems</td>
<td>TBC</td>
<td>OCL + 2 block days</td>
<td>31 Jul + 3 Sep</td>
</tr>
<tr>
<td>MPH5273</td>
<td>Case Study**</td>
<td>David Hills / Lynne Derby</td>
<td>OCL + 1 day block</td>
<td>16 Aug</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>20 Aug</td>
</tr>
<tr>
<td>MPH5288</td>
<td>Introduction &amp; Challenges in Public Health</td>
<td>Helen Kelsall</td>
<td>OCL + 2 day block</td>
<td>19 – 20 Aug</td>
</tr>
<tr>
<td>MPH5289</td>
<td>Professional Practice Development</td>
<td>Darshini Aytin / Renata Morello</td>
<td>OCL + 3 day block</td>
<td>9 – 11 Sep</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Units</th>
<th>Title</th>
<th>Coordinator</th>
<th>Mode</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPM5002</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>EPM5003</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>EPM5004</td>
<td>Linear Models</td>
<td>Stephane Heritier</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5005</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>EPM5007</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>EPM5009</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>EPM5011</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>EPM5012</td>
<td>Bioinformatics</td>
<td>See BCA website</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5014</td>
<td>Probability &amp; Distribution Theory</td>
<td>Rory Wolfe</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5015</td>
<td>Biostatistical Practical Project (single unit)</td>
<td>Andrew Forbes</td>
<td>OCL</td>
<td>For Biostatistics course students only</td>
</tr>
<tr>
<td>EPM5023</td>
<td>Foundations of International Health</td>
<td>Bebe Loft</td>
<td>OCL + 4 block days</td>
<td>12 – 14 Aug + 16 Aug</td>
</tr>
<tr>
<td>HEC5973</td>
<td>Economics Evaluation in Health Care</td>
<td>Rachel Knott</td>
<td>CCL</td>
<td>See Monash Timetables</td>
</tr>
<tr>
<td>MAP5000</td>
<td>Research in Advanced Health Professional Practice*</td>
<td>Sandy Bratt</td>
<td>OCL</td>
<td>NA 24 cpt project = MAP5000 + MAP5010</td>
</tr>
<tr>
<td>MAP5010</td>
<td>Advanced Health Practice Research Project*</td>
<td>Sandy Bratt</td>
<td>OCL</td>
<td>NA 12 cpt project = MAP5010</td>
</tr>
</tbody>
</table>

**KEY**

OCL  Off-campus learning mode of study (distance education)  ** full year unit  * Subject to approval/prerequisite units apply

As this can change from time to time you must check the updated timetable information available on our postgraduate webpage [med.monash.edu/epidemiology/pgrad](med.monash.edu/epidemiology/pgrad)

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
4 March – 31 May
Vacation: 19 - 26 April

Semester 2
29 July – 25 October
Vacation: 30 September – 4 October
NOTE: Teaching period and census dates – monash.edu/enrolments/dates/census.html

Entry requirements

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

For additional international entry requirements, refer to the International 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 procedures

Domestic applicants

2019 Domestic applications closing dates:
20 January 2019: Applicants are strongly encouraged to submit completed applications in November/December of the current year to ensure timely enrolment.
20 June 2019: Mid-year entry

All our graduate courses are available to domestic applicants.

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

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

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

For more information, contact Monash Connect: 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 2019

Domestic students

Fee-paying courses approximately $28,000 per full-time year (eight units)
For details see: monash.edu/fees/domestic-full-fee.html
FEE-HELP available: monash.edu/enrolments/loans/domestic-full-fee.html
Single unit and cross-institutional enrolment approximately $3400.

International students

Fee-paying courses approximately A$38,000 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

Teaching locations 2019

Department of Epidemiology and Preventive Medicine
School of Public Health and Preventive Medicine
533 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
Melway map reference: 2L B9 / 58 B5

Monash Alfred Centre
Lecture Theatre/Seminar Rooms only
Level 5, 99 Commercial Road
Melbourne 3004

Alfred Research Alliance Education Centre
(formerly AMREP)
Ground floor (next to Ian Potter Library)
Alfred Hospital, Commercial Road
Melbourne
Map: www.alfredresearchalliance.org.au/contact