HSYP8005
Infectious Disease Epidemiology
Session 1, Special circumstances 2021

Medicine, Health and Human Sciences Faculty level units

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Notice
As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to timetable viewer. To check detailed information on unit assessments visit your unit’s iLearn space or consult your unit convenor.
General Information

Unit convenor and teaching staff
Unit Convenor
Janaki Amin
janaki.amin@mq.edu.au
Contact via janaki.amin@mq.edu.au
75 Talavera Road
By appointment only

Credit points
10

Prerequisites
Admission to MPH

Corequisites

Co-badged status

Unit description
In this unit, students gain an understanding of how infectious diseases, from tuberculosis to COVID-19, have significantly impacted on human populations. You will focus on infectious disease epidemiology to learn about how diseases spread both locally and globally. You will explore the concepts of source of infection and immunity, surveillance as a tool for understanding burden of disease and impact of control strategies, and outbreak investigations to identify sources and management of disease spread. You will explore these themes through case studies such as sexually transmissible diseases, HIV/AIDS and vaccine preventable diseases. You will explore current out-break investigations and infectious disease surveillance methods; and will learn how key aspects of, and innovations in, infectious disease management have impacted on public health law, management and policy.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at [https://students.mq.edu.au/important-dates](https://students.mq.edu.au/important-dates)

Learning Outcomes
On successful completion of this unit, you will be able to:

ULO1: Describe the principles of infectious disease epidemiology
ULO2: Critically review and evaluate surveillance systems for infectious diseases
ULO3: Apply the principles of outbreak investigation in the context of containing infectious diseases
ULO4: Judge how control of infectious diseases has impacted on public health law and policy

General Assessment Information

Information concerning Macquarie University’s assessment policy is available at https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/assessment. Grade descriptors and other information concerning grading requirements are contained in Schedule 1 of the Macquarie University Assessment Policy.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes and attempt all assessment tasks.

Further details for each assessment task will be available on iLearn, including marking rubrics.

All final grades in the department of Health Systems and Populations are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

Students will be awarded one of these grades plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in Schedule 1 of the Assessment Policy.

Extensions for Assessment tasks


Late Submission of Work

All assignments which are officially received after the due date, and where no extension has been granted by the course convenor or tutor, will incur a deduction of 5% for the first day including the actual day on which the work is received, and 5% for each subsequent day. Weekends and public holidays are included. Late penalty is capped at 50%. For example:

<table>
<thead>
<tr>
<th>Due date</th>
<th>Received</th>
<th>Days late</th>
<th>Deduction</th>
<th>Raw mark</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday 14th</td>
<td>Saturday 15th</td>
<td>1</td>
<td>5%</td>
<td>75%</td>
<td>70%</td>
</tr>
<tr>
<td>Friday 14th</td>
<td>Monday 17th</td>
<td>3</td>
<td>15%</td>
<td>75%</td>
<td>60%</td>
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</table>
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Activity assessment</strong></td>
<td>20%</td>
<td>No</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Interpretation of surveillance data</td>
<td>35%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Cases studies in infectious disease monitoring and control</td>
<td>45%</td>
<td>No</td>
<td>Week 13</td>
</tr>
<tr>
<td>Unit reflection</td>
<td>0%</td>
<td>No</td>
<td>Week 15</td>
</tr>
</tbody>
</table>

Activity assessment

Assessment Type 1: Quiz/Test  
Indicative Time on Task 2: 15 hours  
Due: Ongoing  
Weighting: 20%

A series of activities (MCQ, short answer, problem solving, engagement) designed to foster engagement with weekly learning materials.

On successful completion you will be able to:

- Describe the principles of infectious disease epidemiology
- Critically review and evaluate surveillance systems for infectious diseases
- Apply the principles of outbreak investigation in the context of containing infectious diseases
- Judge how control of infectious diseases has impacted on public health law and policy

Interpretation of surveillance data

Assessment Type 1: Case study/analysis  
Indicative Time on Task 2: 35 hours  
Due: Week 8  
Weighting: 35%

Case study interpreting real world surveillance data

On successful completion you will be able to:
Describe the principles of infectious disease epidemiology
Critically review and evaluate surveillance systems for infectious diseases
Apply the principles of outbreak investigation in the context of containing infectious diseases

Cases studies in infectious disease monitoring and control
Assessment Type 1: Case study/analysis
Indicative Time on Task 2: 40 hours
Due: Week 13
Weighting: 45%

A combination of tasks focused on appraisal and analysis of control of specific infectious diseases

On successful completion you will be able to:
• Describe the principles of infectious disease epidemiology
• Critically review and evaluate surveillance systems for infectious diseases
• Apply the principles of outbreak investigation in the context of containing infectious diseases
• Judge how control of infectious diseases has impacted on public health law and policy

Unit reflection
Assessment Type 1: Reflective Writing
Indicative Time on Task 2: 1 hours
Due: Week 15
Weighting: 0%

Reflection on experience in the unit with consideration of expectations on entry and outcomes at completion of the unit. This reflection may contribute to course based assessment in the Capstone Unit.

On successful completion you will be able to:
• Describe the principles of infectious disease epidemiology
• Critically review and evaluate surveillance systems for infectious diseases
• Apply the principles of outbreak investigation in the context of containing infectious diseases
• Judge how control of infectious diseases has impacted on public health law and policy

1 If you need help with your assignment, please contact:
Delivery and Resources

Unit Organisation

This is a ten credit point unit run over a 13 week session. Further information is available via the HSYP8005 online Learning Management System (LMS) iLearn http://ilearn.mq.edu.

Readings

The readings for each week will be listed in ilearn using the Leganto system. Leganto is the reading list management system, which you can access through your iLearn unit. More information on Leganto is available here: http://libguides.mq.edu.au/leganto

Readings marked as 'required' are essential for completion in the marked week. Some readings may be included that are marked as 'recommended' or 'secondary sources', these are additional materials that may be of interest to you. Please use these at your discretion.

Technology and equipment

Off-campus

To study optimally when off campus you will need to have access to a reliable internet connection to retrieve unit information and at times to join interactive session (eg zoom) or submit assessment tasks via iLearn.

On-campus

Teaching rooms are equipped with state of art audio-visual and ICT equipment including internet connection, high quality video cameras and multiple LCD screens.

Please note that this unit has been altered to accommodate our delivery provisions in compliance with current COVID-19 requirements (Special Circumstance delivery). Learning activities (such as tutorials and other small group learning activities) will be offered on-campus while keeping an online version available for those students who choose to continue their studies online (selected via eStudent).

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-centr
Students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/admin/other-resources/student-conduct

**Results**

Results published on platform other than eStudent, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

**Student Support**

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

**Learning Skills**

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- Getting help with your assignment
- Workshops
- StudyWise
- Academic Integrity Module
The Library provides online and face to face support to help you find and use relevant information resources.

- **Subject and Research Guides**
- **Ask a Librarian**

**Student Enquiry Service**
For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

**Equity Support**
Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

**IT Help**
For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University’s IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.